# Yahoo Group Archive: hp8924

Yahoo Group summary: HP Agilent 8924C

These Yahoo Groups messages were archived in WARC format by ArchiveTeam in 2018. This PDF was generated by Digital Library of Amateur Radio & Communications from the WARC files in 2026.

Date span: 2008-03-20 through 2018-06-05

Source WARC: hp8924.0BScgEv.warc.gz

Source item: https://archive.org/details/yahoo-groups-2018-06-14T22-46-45Z-739c81

Messages included in this PDF: 2691

Yahoo replaced the domain portions of email addresses with @... in the archived messages. Characters lost in Yahoo's archived text appear as ?.

Messages are presented in ascending Yahoo message-ID order. Gaps indicate records absent from the source WARC or messages omitted from this PDF as spam.

# 1. Quick Tips for New Users?

Yahoo group: hp8924
Date: 2008-03-20 01:22:33 UTC
From: radioman762
Topic: 1  Message: 1

Does anyone have quick tips for new users of the 8924C?

I have used other service monitors but not this one. I have one on the way and should have it in a couple days.

Thanks.

Fred
W6WAW

## 2. Re: [hp8924] Quick Tips for New Users?

Yahoo group: hp8924
Date: 2008-03-20 02:24:22 UTC
From: K6PNG
Topic: 1  Message: 2

Fred,
I am in the same position as you are and that is exactly why i started
this group. mine will be delivered Thursday and we will start the fun.
my understanding is that this will be a great monitor for
us hams to use for general radio alignment and also repeater maintenance.

I have posted the manuals that i could find for this monitor in the
files section. although i have noticed that almost everything in the
manuals are aimed toward Cellular use i have been assured that we can
use this monitor for LMR/Ham use also.

73
Ray
K6PNG

> Does anyone have quick tips for new users of the 8924C?
>
> I have used other service monitors but not this one. I have one on
> the way and should have it in a couple days.
>
> Thanks.
>
> Fred
> W6WAW

## 3. power up

Yahoo group: hp8924
Date: 2008-03-22 05:12:09 UTC
From: john.borg77
Topic: 3  Message: 3

Hi All

Finally I recieved my hp8924c .
I spent hole day experiment with radios
and try to understand the buttons. but ,at least i find how TX and RX
work, its great.

My question is how long it take the hp8924c to powering up ?

I plugged in 240v and push the power button to on and it powering up
after 10 or 15 minutes.
Is this normal ?

My 2nd question is if some one know how to detect PL/CTCSS

Best Regards,

John 9H5IC

## 4. Received Mine

Yahoo group: hp8924
Date: 2008-03-22 15:08:42 UTC
From: radioman762
Topic: 4  Message: 4

I received mine a couple of days ago and tried it out last night.

After powering it up, it took a few seconds and then went into the boot routine. At first, I kept getting an error message that the reference oscillator was unlocked. I remembered seeing a picture of a unit somewhere that had a jumper on the rear panel. I found the jumper in the accessories and installed it. That got rid of the error message.

I got it into the spectrum analyzer mode and figured out how to make various adjustments such as bandwidth, etc. However, although I can change the high and low limits from the default 825 MHz, it doesn't look like it is actually changing frequencies.

The "grass" on the display doesn't change and a HT keyed up across the room doesn't register. I will have to look to see whether my Cushman has an RF generator that will go up to 825. If so, I will use it as a signal source and see whether the 8924 recognizes it.

I think that I am going to have to take a look at the HP-8920 documentation to see if it sheds any light on things. As I understand it, the 8924C is built on top of the 8920 platform and has the same underlying hardware and firmware with the CMDA stuff added. The 8920 documentation is available on the HP/Agilent website. Since the 8924 documentation seems to focus on the CMDA functions, maybe the 8920 reference material will be more helpful.

Fred
W6WAW

# 5. Got The HP-8924C Spectrum Analyzer Working

Yahoo group: hp8924
Date: 2008-03-23 04:01:21 UTC
From: radioman762
Topic: 5  Message: 5

I consulted the HP 8920 manual and determined that you have to set the center frequency for the spectrum analyzer, not the upper and lower limits. I am not sure how I overlooked this when I tried to do it without bothering to RTFM.

Next task is to get the tracking generator started.

The 8920 manuals can be found by drilling down from this page:

http://www.home.agilent.com

Fred
W6WAW

## 6. Help Menu

Yahoo group: hp8924
Date: 2008-03-23 16:20:19 UTC
From: radioman762
Topic: 6  Message: 6

I discovered that the 8924 has built-in help function that provides basic information about accessing and using a number of features.

The "Help" button is the 4th from the left in the top row. Pressing it brings up the help screen with full instructions about how to use this function.

A number of my questions about how to use such things as the spectrum analyzer and tracking generator were quickly answered far more quickly than by searching through the manuals. It is certainly a good place to start.

Hope that everyone is enjoying their 8924 as much as I am.

Fred
W6WAW

## 7. Re: [hp8924] Help Menu

Yahoo group: hp8924
Date: 2008-03-23 21:08:06 UTC
From: K6PNG
Topic: 6  Message: 7

Fred,
it sounds like you are figuring a few of the features out. i have mine
and it all seems to work well. now if i could only figure out
how to use of if it really has a tracking generator.

73
Ray

radioman762 wrote:
>
>
> I discovered that the 8924 has built-in help function that provides
> basic information about accessing and using a number of features.
>
> The "Help" button is the 4th from the left in the top row. Pressing
> it brings up the help screen with full instructions about how to use
> this function.
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> A number of my questions about how to use such things as the spectrum
> analyzer and tracking generator were quickly answered far more quickly
> than by searching through the manuals. It is certainly a good place
> to start.
>
> Hope that everyone is enjoying their 8924 as much as I am.
>
> Fred
> W6WAW

## 8. Re: Help Menu

Yahoo group: hp8924
Date: 2008-03-25 06:11:49 UTC
From: radioman762
Topic: 6  Message: 8

Ray,

It does have the tracking generator. I think that this is covered to some extent on the help screen. It is tricky to get to the menu that turns it on, but I eventually found it. I haven't used it yet and I can't tell you the exact steps I used to get to it, except to say that I would have to experiment again to find it.

One thing that is useful about the 8924C is the ability to save, name, and recall various configurations. I have done this for a couple of things so that I can go directly to different functions without having to change all the defaults each time. It gives me a known starting point.

I no longer have to go in and change the RF settings from "channel" to "frequency", etc. Instead, I just recall the previously saved setup. I plan to do this the next time I find the tracking generator screen.

I am sure that there is a way to change the defaults so that it will power up with the desired settings, I just haven't had time to find this. It may also be relatively easy to do if you hook the 8924C up to a computer and program it. I think there is a lot hidden in this box that apparently originally listed for $49K.

Fred
W6WAW

# 9. Saving your setup

Yahoo group: hp8924
Date: 2008-03-29 03:05:39 UTC
From: K6PNG
Topic: 6  Message: 9

Here is how to save your settings so that you do not have to go into the config screens every time you start the monitor up.

To Save an Instrument Setup
1. Press and release the SHIFT key, then the PREV key to access the I/O CONFIGURE
screen. Select the storage media using the Save/Recall field. (The default storage
media is internal memory.)
2. Make any changes to the instrument that you want to save in a register.
3. Press and release the SHIFT key, then the RECALL key to select the SAVE function.
4. Use the DATA keys or the Save: menu at the bottom right of the screen to enter the
save register name.
Front-Panel Example
This example saves the current instrument settings.
1. Press and release the SHIFT key, then the RECALL key to select the SAVE function.
A prompt appears at the top of the screen asking you to enter a name.
2. Using the DATA keys, enter 123, then press the ENTER key to assign a name.

note: if you name the register POWERON rather than 123 the unit will come up in those saved settings.

## 10. hello group

Yahoo group: hp8924
Date: 2008-04-05 09:15:04 UTC
From: arthurok2000
Topic: 10  Message: 10

```
im a ham too k9dta
and my qth is in chicago usa
did hp make a 8924 a or b or just a
'c
' version??
im fairly heavily into electronic test equipment
and repair electronic equipment too.
what is the going rate for a used reparable 8924c
and has anyone thought of some modifications that would make it
more usefull i guess the reason they are coming on the used
market is because they wont cover the "pcs" cell phone
frequencies .
```

## 11. Re: [hp8924] hello group

Yahoo group: hp8924
Date: 2008-04-05 22:35:05 UTC
From: K6PNG
Topic: 10  Message: 11

arthurok2000 wrote:
>
>
> im a ham too k9dta
> and my qth is in chicago usa
> did hp make a 8924 a or b or just a
> 'c
> ' version??
> im fairly heavily into electronic test equipment
> and repair electronic equipment too.
> what is the going rate for a used reparable 8924c
> and has anyone thought of some modifications that would make it
> more usefull i guess the reason they are coming on the used
> market is because they wont cover the "pcs" cell phone
> frequencies .
>

The 8924c does cover the pcs freqs
from 1700 to 1900 with an add on
module. i have this add on but
have not messed with it as of yet.

73
Ray
K6PNG

## 12. microphone connector

Yahoo group: hp8924
Date: 2008-04-22 05:13:39 UTC
From: K6PNG
Topic: 10  Message: 12

Hello All,
hope everyone is doing great with the 8924c's that we all got for a damn good price. Does anyone know what the mic/acc connector actually is for this? I would like to wire up a microphone for testing and i just can not figure out what connector this is.

73
Ray

## 13. New Monitor Assembly

Yahoo group: hp8924
Date: 2008-06-01 18:05:31 UTC
From: radioman762
Topic: 13  Message: 13

I just saw that there is a new monitor assembly for the 8924 and similar units on eBay. Look for item # 120264961782 ending soon. I have no connection with this listing.

It appears to be the entire assembly, not just the CRT, so it is probably plug and play.

W6WAW

## 14. Re: power up

Yahoo group: hp8924
Date: 2008-06-28 00:07:18 UTC
From: xxx2fan
Topic: 3  Message: 14

--- In hp8924@yahoogroups.com, "john.borg77" <jbe@...> wrote:
>

John I just got my HP8924C today. If at all possible could you send me a email on how you got the TX and RX to work Boy I'm having a time. They say the 8924C will do everything the 8920B will do. Thanks for any info you may be able to provide.

Thanks
2fan

> Hi All
>
> Finally I recieved my hp8924c .
> I spent hole day experiment with radios
> and try to understand the buttons. but ,at least i find how TX and
RX
> work, its great.
>
> My question is how long it take the hp8924c to powering up ?
>
> I plugged in 240v and push the power button to on and it powering up
> after 10 or 15 minutes.
> Is this normal ?
>
> My 2nd question is if some one know how to detect PL/CTCSS
>
>
> Best Regards,
>
> John 9H5IC
>

## 15. [hp8924] Re: power up

Yahoo group: hp8924
Date: 2008-07-02 04:17:48 UTC
From: jbe@onvol.net
Topic: 3  Message: 15

Hi

Go to Analog buttons pres tx and transmit and you can see on display the
power dev, frq. etc.
on the rx side press rx and you have the frq ready adjust the signal
level and ctcss if you have

the hp8924c works fine for two way radios

Thanks

On 28/6/2008, "xxx2fan" <xxx2fan@...> wrote:

>--- In hp8924@yahoogroups.com, "john.borg77" <jbe@...> wrote:
>>
>
>
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>They say the 8924C will do everything the 8920B will do. Thanks for
>any info you may be able to provide.
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>Thanks
>2fan
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>> Hi All
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>
>
>
>

# 16. Recommended ? and what's one worth?

Yahoo group: hp8924
Date: 2009-01-05 06:27:09 UTC
From: wb6ymh
Topic: 16  Message: 16

I've been googling for 8924c info and just found this list. I'm thinking of bidding on one for myself for belated Christmas present. Since you guys have had yours for a while now I wonder if you like yours and if you think it's worth the $700 to $1500 they seem to be going for on ebay at the moment.

It sure looks like it does a lot of stuff but it also looks huge. I'll use it in the shack 99% of the time, but I might also take it to a mountain top from time to time if I can lift it, hi!

I'd appreciate any comments you care to pass on.

73's Skip WB6YMH

## 17. Re: [hp8924] Recommended ? and what's one worth?

Yahoo group: hp8924
Date: 2009-01-05 09:52:06 UTC
From: wx2nj@comcast.net
Topic: 16  Message: 17

I did spend another $200 to replace the display unit (bad burn on the screen), but the unit out performs analyzers costing $30K and up. It is very heavy and is in my shop 95% of the time.

73, Bob, WX2NJ (Amateur)
PG00016133 (Commercial)
Ocean County ARES® EC
http://qsy.to/wx2nj
Ocean County Assistant Skywarn Coordinator
http://www.qsl.net/kc2elg/
Bayville, NJ Weather Updated Every 60 Minutes
http://qsy.to/wxnj

----- Original Message -----
From: "wb6ymh" <freebsdfan@...>
To: hp8924@yahoogroups.com
Sent: Monday, January 5, 2009 1:27:09 AM GMT -05:00 US/Canada Eastern
Subject: [hp8924] Recommended ?  and what's one worth?

I've been googling for 8924c info and just found this list. I'm thinking of bidding on one for myself for belated Christmas present. Since you guys have had yours for a while now I wonder if you like yours and if you think it's worth the $700 to $1500 they seem to be going for on ebay at the moment.

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73's Skip WB6YMH

## 18. Re: Recommended ? and what's one worth?

Yahoo group: hp8924
Date: 2009-01-05 16:43:41 UTC
From: travis8303
Topic: 16 Message: 18

I like the 8924C.
It is bigger than the 8920 so a bit of a downside but if one ever
wanted to test a cell phone or site, would come in handy or not.
The tone features are not as easy to maneuver to as the 8920 either
but during my last calibration, supposedly a macro was put in to
gain quicker access to the feature.

Easy to set up and use to test radio gear.
Very nice tracking generator/spectrum analyzer.

Heavy but if you don't mind the exercise and lift carefully, its
movable. :)

I am in the midst of trialing some software from this group:
http://www.measurement.ashop.com.au/p/248506/rft-1000-rf-tools-
software.html
My 8924C is just coming back from being calibrated, should be here
in the next few days.

The software was originally designed for the 8920 but I was told by
some techs that it should work as well with the 8924C, here's to
hoping.
The interface is expensive, needs a GPIB to USB 82357B unit (we
think because of the data through put but would be willing to trial
other less expensive units) but the additional features of the
software should make this very attractive for shop use to those of
us that can't afford high dollar pieces of equipment. Additionally,
the GPIB interface would allow computer control of multiple pieces
of equipment with the GPIB interface.

We are using ours with an Eagle return loss bridge kits. Fantastic.

http://www.eagle-1st.com/default.htm

If you look at the duplexer tuning page, http://www.eagle-
1st.com/notes/duplex/dup.htm, you will see what I mean.
TXRX duplexer tuning notes show the sweeps better even though they
use an IFR A-7550, sweeps are the same regardless of which
unit...have them both.
The beauty of it all, tuning is done to a 50 MHz load AND you can
view the entire duplexer at once. Too sweet.

Amtronix or another site has just the bridge unit for sale at a good
price.
Amtronix also has a screen capture link on their site, works very
well. The interface cable is simple.

Is there a good connection for the display/scope units?
200 dollars seems fair.

Travis
AA9NV

--- In hp8924@yahoogroups.com, wx2nj@... wrote:
>
> I did spend another $200 to replace the display unit (bad burn on
the screen), but the unit out performs analyzers costing $30K and
up. It is very heavy and is in my shop 95% of the time.
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> ----- Original Message -----
> From: "wb6ymh" <freebsdfan@...>
> To: hp8924@yahoogroups.com
> Sent: Monday, January 5, 2009 1:27:09 AM GMT -05:00 US/Canada
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> Subject: [hp8924] Recommended ? Â and what's one worth?
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> mountain top from time to time if I can lift it, hi!
>
> I'd appreciate any comments you care to pass on.
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> 73's Skip WB6YMH
>

# 19. usable for 10 meters ?

Yahoo group: hp8924
Date: 2009-01-05 19:19:45 UTC
From: wb6ymh
Topic: 19  Message: 19

Thanks for the responses, I guess I have to have one. Wish me luck!
Another question: is the 30Mhz lower limit a hard limit? i.e. can I
use it on 29.6 at all?

73's Skip WB6YMH

## 20. Re: [hp8924] usable for 10 meters ?

Yahoo group: hp8924
Date: 2009-01-05 19:28:52 UTC
From: wx2nj@comcast.net
Topic: 19  Message: 20

I use it at 455 KHz to align radio IF's.

73, Bob, WX2NJ (Amateur)
PG00016133 (Commercial)
Ocean County ARES® EC
http://qsy.to/wx2nj
Ocean County Assistant Skywarn Coordinator
http://www.qsl.net/kc2elg/
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From: "wb6ymh" <freebsdfan@...>
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# 21. Re: [hp8924] Re: Recommended ? and what's one worth?

Yahoo group: hp8924
Date: 2009-01-05 22:12:27 UTC
From: WX2NJ
Topic: 16  Message: 21

I purchased a new display unit through eBay from rb@...
Not sure if he still has any left. The price was $220, shipping included.

73, Bob, WX2NJ (Amateur)
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----- Original Message -----
From: travis8303
To: hp8924@...m
Sent: Monday, January 05, 2009 11:43 AM
Subject: [hp8924] Re: Recommended ? and what's one worth?

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The tone features are not as easy to maneuver to as the 8920 either
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## 22. Re: [hp8924] Re: Recommended ? and what's one worth?

Yahoo group: hp8924
Date: 2009-01-06 01:05:39 UTC
From: K6PNG
Topic: 16  Message: 22

I have not seen it mentioned by anyone so i will. make sure when you are looking at them on ebay you pay attention to what power rating the it is. from what i have seen you can get a 2,60 and 100 watt version. Depending on what you will be doing with your unit this may or may not be an issue.

Regards,
Ray

WX2NJ wrote:
>
>
> I purchased a new display unit through eBay from rb@...
> <mailto:rb@...>
> Not sure if he still has any left. The price was $220, shipping included.
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> Bayville, NJ Weather Updated Every 60 Minutes
> http://qsy.to/wxnj <http://qsy.to/wxnj>
>
>
>
>
> ----- Original Message -----
> *From:* travis8303 <mailto:travis8303@...>
> *To:* hp8924@yahoogroups.com <mailto:hp8924@yahoogroups.com>
> *Sent:* Monday, January 05, 2009 11:43 AM
> *Subject:* [hp8924] Re: Recommended ? and what's one worth?
>
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> in the next few days.
>
> The software was originally designed for the 8920 but I was told by
> some techs that it should work as well with the 8924C, here's to
> hoping.
> The interface is expensive, needs a GPIB to USB 82357B unit (we
> think because of the data through put but would be willing to trial
> other less expensive units) but the additional features of the
> software should make this very attractive for shop use to those of
> us that can't afford high dollar pieces of equipment. Additionally,
> the GPIB interface would allow computer control of multiple pieces
> of equipment with the GPIB interface.
>
> We are using ours with an Eagle return loss bridge kits. Fantastic.
>
> http://www.eagle-1st.com/default.htm
> <http://www.eagle-1st.com/default.htm>
>
> If you look at the duplexer tuning page, http://www.eagle-
> 1st.com/notes/duplex/dup.htm, you will see what I mean.
> TXRX duplexer tuning notes show the sweeps better even though they
> use an IFR A-7550, sweeps are the same regardless of which
> unit...have them both.
> The beauty of it all, tuning is done to a 50 MHz load AND you can
> view the entire duplexer at once. Too sweet.
>
> Amtronix or another site has just the bridge unit for sale at a good
> price.
> Amtronix also has a screen capture link on their site, works very
> well. The interface cable is simple.
>
> Is there a good connection for the display/scope units?
> 200 dollars seems fair.
>
> Travis
> AA9NV
>
> --- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>,
> wx2nj@... wrote:
> >
> > I did spend another $200 to replace the display unit (bad burn on
> the screen), but the unit out performs analyzers costing $30K and
> up. It is very heavy and is in my shop 95% of the time.

> >
> > 73, Bob, WX2NJ (Amateur)
> > PG00016133 (Commercial)
> > Ocean County ARES® EC
> > http://qsy.to/wx2nj <http://qsy.to/wx2nj>
> > Ocean County Assistant Skywarn Coordinator
> > http://www.qsl.net/kc2elg/ <http://www.qsl.net/kc2elg/>
> > Bayville, NJ Weather Updated Every 60 Minutes
> > http://qsy.to/wxnj <http://qsy.to/wxnj>
> >
> >
> > ----- Original Message -----
> > From: "wb6ymh" <freebsdfan@...>
> > To: hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>
> > Sent: Monday, January 5, 2009 1:27:09 AM GMT -05:00 US/Canada
> Eastern
> > Subject: [hp8924] Recommended ? ? and what's one worth?
> >
> >
> >
> >
> >
> >
> > I've been googling for 8924c info and just found this list. I'm
> > thinking of bidding on one for myself for belated Christmas
> present.
> > Since you guys have had yours for a while now I wonder if you like
> > yours and if you think it's worth the $700 to $1500 they seem to
> be
> > going for on ebay at the moment.
> >
> > It sure looks like it does a lot of stuff but it also looks huge.
> I'll
> > use it in the shack 99% of the time, but I might also take it to a
> > mountain top from time to time if I can lift it, hi!
> >
> > I'd appreciate any comments you care to pass on.
> >
> > 73's Skip WB6YMH
> >
>
>

## 23. Re: usable for 10 meters ?

Yahoo group: hp8924
Date: 2009-01-06 13:21:36 UTC
From: travis8303
Topic: 19  Message: 23

If you decide to purchase a unit, there is a self test section with
many different testing options.
My recommendation is to have the seller run all the tests to verify
correct operation before the unit is shipped.

The first one I purchased didn't work well, ran the self-tests and
sure enough it failed a few of them.
With the shipping costs these days, you can both save some grief and
time by having the tests run prior to shipping.

Mine should show up today from being calibrated. :)

Will advise the group as soon as I can about my software trials.

Travis
AA9NV

--- In hp8924@yahoogroups.com, "wb6ymh" <freebsdfan@...> wrote:
>
> Thanks for the responses, I guess I have to have one. Wish me
luck!
> Another question: is the 30Mhz lower limit a hard limit? i.e. can
I
> use it on 29.6 at all?
>
> 73's Skip WB6YMH
>

# 24. Re: usable for 10 meters ?

Yahoo group: hp8924
Date: 2009-01-06 14:56:46 UTC
From: ki4hzp
Topic: 19  Message: 24

Hello to the group, my name is Sonny - Ki4HZP.

Travis, I just told Mark about the group, we should see him soon. We talked some this morning, on the air about our ideas with the service monitors and are all on the same page. Maybe this weekend we will get a chance to play some with them together and get a better idea of what tests we will be setting up in the macro area and work on the general connection configuration with the unit under test. Mark and I will also need to get the PL/DPL set-up from you after you figure out how Rick set it up on your unit.

Skip, good to see you're interested in the 8924c. Your interest in this service monitor makes me feel that we may have made a good choice.

You know Mark ☐ Ki4SWB well, Travis myself and Mark all decided to collectively work with the HP 8924c units and so far (early hands on) we think it might be a useful unit for us. We all have one of our own. It will be cool to get one for you and we can learn together exactly what we can do with it.

We think you live about 30 miles from the shipping location of where we purchased our units. You might be able to go in person, pick out a nice one, and actually perform the "self test" diagnostic utility on a unit before you take one.

I can pass you a phone number and a call can be placed to verify this with the seller before you make the final decision on this equipment investment.

Skip, I just asked for the 8924c of mine to listen for 29.600000 it took that value and as I scrolled down Freq. I arrived at 9.600000 and anything lower a flag warning on the display was "Input value out of range"

Again, we just started to play with this service gear. I would think that it will do from 9.600000 to 1009.600000 as that seams to be the top end before the flag warning of "Input value out of range" Hope this helps.

Keep Playing Radio!

Sonny

Ki4HZP

--- In hp8924@yahoogroups.com, "travis8303" <travis8303@...> wrote:
>

> If you decide to purchase a unit, there is a self test section with
> many different testing options.
> My recommendation is to have the seller run all the tests to verify
> correct operation before the unit is shipped.
>
> The first one I purchased didn't work well, ran the self-tests and
> sure enough it failed a few of them.
> With the shipping costs these days, you can both save some grief and
> time by having the tests run prior to shipping.
>
> Mine should show up today from being calibrated. :)
>
> Will advise the group as soon as I can about my software trials.
>
> Travis
> AA9NV
>
> --- In hp8924@yahoogroups.com, "wb6ymh" freebsdfan@ wrote:
> >
> > Thanks for the responses, I guess I have to have one. Wish me
> luck!
> > Another question: is the 30Mhz lower limit a hard limit? i.e. can
> I
> > use it on 29.6 at all?
> >
> > 73's Skip WB6YMH
> >
>

## 25. Thanks guys!

Yahoo group: hp8924
Date: 2009-01-06 23:38:59 UTC
From: wb6ymh
Topic: 25  Message: 25

Well I didn't win the auction I was bidding on, it went crazy but I'll keep trying. Your tips saved me from buying a 3 watt unit by mistake. The guy insisted that his was a 6 (not 60) watt unit and that there weren't any 60 or 100 watt options. "And besides this is a CDMA tester which is of no use for a Ham radio". Sigh...

In the last 15 days on ebay a 3 watt version when for $775, 60 watt versions for $700, and $1257 and a 100 watt version for $805 and $975.

There's a stack of 3 watt version with a buy it now of $399, but they are in Hong Kong with a shipping of $300 and a description of "missing parts". Pass on that.

Other than the maximum input power are there any options that I need to make sure I get? Do I gather correctly that the tracking generator and spectrum analyzer were stock features, not options.

I'll have a "almost new" CE5 for sale if I snag an 8924C (grin)

73's Skip WB6YMH

# 26. Re: usable for 10 meters ?

Yahoo group: hp8924
Date: 2009-01-06 23:54:04 UTC
From: wb6ymh
Topic: 19  Message: 26

--- In hp8924@yahoogroups.com, "ki4hzp" <Ki4HZP@...> wrote:
> We think you live about 30 miles from the shipping location of where we
> purchased our units. You might be able to go in person, pick out a nice
> one, and actually perform the "self test" diagnostic utility on
> a unit before you take one.

I'm all ears! The one I bid on was from test equipment surplus in
Anaheim. He has one on his website for $2800 but they going for
considerably less than that on ebay.

73's Skip WB6YMH

# 27. Re: usable for 10 meters ?

Yahoo group: hp8924
Date: 2009-01-07 01:45:16 UTC
From: ki4hzp
Topic: 19  Message: 27

Skip, we got ours from Joon Kyong. His helper is Sam. They do sell on ebay. Even with some minor problems we had with the transactions, they worked out everything very nicely.

The phone number for them is 714-778-5151.

I called Joon today just after I sent the yahoo message out to the group. I explained to him that you are interested in a good HP 8924c like we have and that you are not far from his location. I mentioned that you might be able to drive over in person and check one out for purchase. Joon asked that I pass on his number so you could call him and work out the details.

Heads up, they are not technicians¡¦ of this service gear. At least I do not think so. We did not talk about the possibility of you actually getting to put hands on before you purchase but you should ask if you could check one out before you pick it up. If you can work this out with Joon / Sam, get back to one of us and we will send you the instructions for the self-test diagnostic features you can run. You will need to bring one adapter (N male to female BNC) or one 50-ohm cable terminated with one male N and one male BNC. You will need one BNC ¡§T¡¨ connector (one male end with two female ends) and three 50-ohm cables terminated with male BNC connectors. Two can be as short as 6 inches but one will need to run from the back of the unit to the front, 2 or 3 feet long. With the above in hand, advanced diagnostic tests can be run on the unit.

When we got ours, in the beginning of November 2008 the ebay sales were between 800 and 1500 auction style and 2200 ¡V 3500 hard asking price. Junk and un-known condition units brought upper 600 ¡V 800. I called and worked with Sam, Travis and I gave $1060.00 for ours and felt that was fair and we paid another 85.00 for shipping them to us. Mark bid on one later that month and paid about the same I think. That was for a known good working 100-Watt unit.

I can tell you that they have many units; he asked how many more we wanted □º I told him you are interested in one good 100-Watt unit like ours and asked him to treat you like he did us.

The man who calibrated our units, Rick from Amtronix is very knowledgeable about the HP service monitors and treated us good (he is a ham) and knows Joon and his operation out there.

Give them a call and hammer out a deal, feel free to use any of our names for reference. We try to keep in the front of our minds that to an Amateur operator the world is really quite small.

Let us know what you end up doing,

Sonny
Ki4HZP
Desk: 321-288-7948
Auto Patch on the Palm Bay 444.475: 702-421-5956

--- In hp8924@yahoogroups.com, "wb6ymh" <freebsdfan@...> wrote:
>
> I'm all ears! The one I bid on was from test equipment surplus in
> Anaheim. He has one on his website for $2800 but they going for
> considerably less than that on ebay.
>
> 73's Skip WB6YMH
>

# 28. Re: usable for 10 meters ?

Yahoo group: hp8924
Date: 2009-01-07 02:26:40 UTC
From: wb6ymh
Topic: 19  Message: 28

--- In hp8924@yahoogroups.com, "ki4hzp" <Ki4HZP@...> wrote:

Thanks! Yup that's the same guy. I bid had $850 on a 60 watt model. I didn't really want to go higher as one sold for $700 within the last 2 weeks (from the same guy). But if I can work out a deal to run the self test and cherry pick a good one then I'll probably do it.

I've already bid on the current auction, I think I'll see how I do before I call him. I was planning on picking it up rather than having it shipped in any case. Maybe if I offer to bring cash money rather than using paypal he'll let me play. His auction states "This item is in good working condition and is guaranteed to work. If you receive the item and it does not function, please let us know and we will give you a full refund including shipping." so verifying it works before I walk out the door helps both of us.

I have plenty of cables/adapters so please send me the instructions!

Thanks !!

73's Skip WB6YMH
>
> Skip, we got ours from Joon Kyong. His helper is Sam. They do sell
> on ebay. Even with some minor problems we had with the transactions,
> they worked out everything very nicely.
>
> The phone number for them is 714-778-5151.
>
> I called Joon today just after I sent the yahoo message out to the
> group. I explained to him that you are interested in a good HP 8924c
> like we have and that you are not far from his location. I mentioned
> that you might be able to drive over in person and check one out for
> purchase. Joon asked that I pass on his number so you could call him
> and work out the details.
>
> Heads up, they are not technicians¡¦ of this service gear. At least I
> do not think so. We did not talk about the possibility of you
> actually getting to put hands on before you purchase but you should
> ask if you could check one out before you pick it up. If you can
> work this out with Joon / Sam, get back to one of us and we will send
> you the instructions for the self-test diagnostic features you can
> run. You will need to bring one adapter (N male to female BNC) or
> one 50-ohm cable terminated with one male N and one male BNC. You
> will need one BNC ¡§T¡¨ connector (one male end with two female ends)
> and three 50-ohm cables terminated with male BNC connectors. Two can
> be as short as 6 inches but one will need to run from the back of the

> unit to the front, 2 or 3 feet long. With the above in hand,
> advanced diagnostic tests can be run on the unit.
>
> When we got ours, in the beginning of November 2008 the ebay sales
> were between 800 and 1500 auction style and 2200 ¡V 3500 hard asking
> price. Junk and un-known condition units brought upper 600 ¡V 800. I
> called and worked with Sam, Travis and I gave $1060.00 for ours and
> felt that was fair and we paid another 85.00 for shipping them to
> us. Mark bid on one later that month and paid about the same I
> think. That was for a known good working 100-Watt unit.
>
> I can tell you that they have many units; he asked how many more we
> wanted □º I told him you are interested in one good 100-Watt unit
> like ours and asked him to treat you like he did us.
>
> The man who calibrated our units, Rick from Amtronix is very
> knowledgeable about the HP service monitors and treated us good (he
> is a ham) and knows Joon and his operation out there.
>
> Give them a call and hammer out a deal, feel free to use any of our
> names for reference. We try to keep in the front of our minds that
> to an Amateur operator the world is really quite small.
>
> Let us know what you end up doing,
>
> Sonny
> Ki4HZP
> Desk: 321-288-7948
> Auto Patch on the Palm Bay 444.475: 702-421-5956
>
>
> --- In hp8924@yahoogroups.com, "wb6ymh" <freebsdfan@> wrote:
> >
> > I'm all ears! The one I bid on was from test equipment surplus in
> > Anaheim. He has one on his website for $2800 but they going for
> > considerably less than that on ebay.
> >
> > 73's Skip WB6YMH
> >
>

# 29. Re: [hp8924] Re: usable for 10 meters ?

Yahoo group: hp8924
Date: 2009-01-07 02:48:01 UTC
From: K6PNG
Topic: 19  Message: 29

Sonny,
it would be good if you post the self test instructions
to the list rather than sending it direct. That way future users
can search the list for it.. not to mention i would like to run mine
through the advanced tests.

73
Ray

ki4hzp wrote:
>
>
> Skip, we got ours from Joon Kyong. His helper is Sam. They do sell
> on ebay. Even with some minor problems we had with the transactions,
> they worked out everything very nicely.
>
> The phone number for them is 714-778-5151.
>
> I called Joon today just after I sent the yahoo message out to the
> group. I explained to him that you are interested in a good HP 8924c
> like we have and that you are not far from his location. I mentioned
> that you might be able to drive over in person and check one out for
> purchase. Joon asked that I pass on his number so you could call him
> and work out the details.
>
> Heads up, they are not technicians?? of this service gear. At least I
> do not think so. We did not talk about the possibility of you
> actually getting to put hands on before you purchase but you should
> ask if you could check one out before you pick it up. If you can
> work this out with Joon / Sam, get back to one of us and we will send
> you the instructions for the self-test diagnostic features you can
> run. You will need to bring one adapter (N male to female BNC) or
> one 50-ohm cable terminated with one male N and one male BNC. You
> will need one BNC ??T?? connector (one male end with two female ends)
> and three 50-ohm cables terminated with male BNC connectors. Two can
> be as short as 6 inches but one will need to run from the back of the
> unit to the front, 2 or 3 feet long. With the above in hand,
> advanced diagnostic tests can be run on the unit.
>
> When we got ours, in the beginning of November 2008 the ebay sales
> were between 800 and 1500 auction style and 2200 ?V 3500 hard asking
> price. Junk and un-known condition units brought upper 600 ?V 800. I
> called and worked with Sam, Travis and I gave $1060.00 for ours and
> felt that was fair and we paid another 85.00 for shipping them to
> us. Mark bid on one later that month and paid about the same I

> think. That was for a known good working 100-Watt unit.
>
> I can tell you that they have many units; he asked how many more we
> wanted ?? I told him you are interested in one good 100-Watt unit
> like ours and asked him to treat you like he did us.
>
> The man who calibrated our units, Rick from Amtronix is very
> knowledgeable about the HP service monitors and treated us good (he
> is a ham) and knows Joon and his operation out there.
>
> Give them a call and hammer out a deal, feel free to use any of our
> names for reference. We try to keep in the front of our minds that
> to an Amateur operator the world is really quite small.
>
> Let us know what you end up doing,
>
> Sonny
> Ki4HZP
> Desk: 321-288-7948
> Auto Patch on the Palm Bay 444.475: 702-421-5956
>
> --- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>,
> "wb6ymh" <freebsdfan@...> wrote:
> >
> > I'm all ears! The one I bid on was from test equipment surplus in
> > Anaheim. He has one on his website for $2800 but they going for
> > considerably less than that on ebay.
> >
> > 73's Skip WB6YMH
> >
>
>

# 30. Re: usable for 10 meters ?

Yahoo group: hp8924
Date: 2009-01-07 13:16:44 UTC
From: Travis Graham
Topic: 19  Message: 30

Well, my testing may be limited this weekend.
UPS busted up the unit, as they normally do.
Unit is tough, for the abuse it took suprisingly little is wrecked...hopefully.

Parts are inbound and hopefully those will repair the unit sufficiently to trial run the software I mentioned in another post and run the self-tests to verify no other damage.

I will try to learn how to set up the Macros and where the Power-on feature is set up and stored.

If anyone on the group is going to need rf tuning or alignment tools, one universal tool was mentioned on the MastrII site, forget the number right now, but I have a few left if needed. They are $6 each plus shipping. I bought them direct from Motorola.
Here is a quote from the other site:
The Motorola 6684387C01 tool fits every coil and capacitor in a
Mastr II radio, including the warping capacitor on the ICOMs. I checked the
four items you mentioned, and verified that the tool actually fits them.
Naturally, it also can be used on Exec II and MVP radios, along with
many other models. I especially like the large diameter of the handle,
which makes it very easy to control the tool for fine adjustments.

Good to see the posts.
We will be posting soon.

Travis

# 31. New file uploaded to hp8924

Yahoo group: hp8924
Date: 2009-01-10 15:03:00 UTC
From: hp8924@yahoogroups.com
Topic: 31  Message: 31

```
Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hp8924
group.

File : /Poweron - tests - setup.rtf
Uploaded by : travis8303 <travis8303@...>
Description : HP8924C POWERON Tests setup

You can access this file at the URL:
http://groups.yahoo.com/group/hp8924/files/Poweron%20-%20tests%20-%20setup.rtf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.htmlfiles

Regards,

travis8303 <travis8303@...>
```

# 32. Service monitor repairs and RFT-1000 Tools

Yahoo group: hp8924
Date: 2009-01-10 18:18:46 UTC
From: travis8303
Topic: 32  Message: 32

Hello group,

My service monitor is back on track and repaired although not as confident that the calibration maintained as it was but it may have. A VX-177 transmit showed 446.000160 so hopefully it is still close.

Pictures of the inside and front of the repaired unit are posted at:
http://aa9nv.r2i.net/HP8924C.htm
A bunch of my notes/thoughts and explanations are included for your perusal.

The RFT-1000 testing is included on the page as well.
Screen shots tell it all.

Any thoughts, questions, comments, please send them over.

Thank you.

Travis
AA9NV

## 33. Re: New file uploaded to hp8924

Yahoo group: hp8924
Date: 2009-01-13 00:36:30 UTC
From: wb6ymh
Topic: 31  Message: 33

Thanks for posting the information! I plan on putting it to good use
shortly, hopefully tomorrow as I finally won one.

73's Skip WB6YMH

--- In hp8924@yahoogroups.com, hp8924@yahoogroups.com wrote:
>
>
> Hello,
>
> This email message is a notification to let you know that
> a file has been uploaded to the Files area of the hp8924
> group.
>
> File : /Poweron - tests - setup.rtf
> Uploaded by : travis8303 <travis8303@...>
> Description : HP8924C POWERON Tests setup
>
> You can access this file at the URL:
>
http://groups.yahoo.com/group/hp8924/files/Poweron%20-%20tests%20-%20setup.rtf

>
> To learn more about file sharing for your group, please visit:
>
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.htmlfiles
>
> Regards,
>
> travis8303 <travis8303@...>
>

# 34. new owner adventures

Yahoo group: hp8924
Date: 2009-01-14 07:32:59 UTC
From: wb6ymh
Topic: 19  Message: 34

I met Joon today, he's a very nice guy. I had my doubts when I spoke to him on the phone but I don't think he liked my low ball offer!

There was no problem running the diags on site, Joon watched everything and was very interested in the writeup uploaded here (I gave him a copy). I don't think they've ever run any of those tests, they just go by the results of the automatic power up self test.

Unfortunately I didn't connect the cables correctly for the audio test so it failed a few tests. I was working partly in the sun and it was hard to read the screen and I've never touched one of these before. It also failed two RF tests.... so I asked Joon if I could try another one.

The second unit was in much rougher shape than the first one physically (busted BNC connector on the front panel, partially broken knobs, nameplate falling off) and it also failed some of the RF tests.

When I asked to try a 3'rd unit he kind of rolled his eyes and said he had sold 200 of them so far and only 5 had been returned. I was short of time and I didn't want to press the issue. He keep saying that I had got mine too cheap and would be happy to refund my money (grin).

So ... I brought the first one home, skipped dinner and played with it all night.

Initially 2 of the RF tests failed (in the receiver I believe), but they scrolled off the screen before I could really gather what the problem was. (I hadn't discovered the stop on failure option yet).

After playing with it for hours I ran the tests again to write down the particulars of the failures and report back here to see what it meant and ... drum roll... they didn't fail! I ran the tests several times and it seem solid now. There's a warning about a 15 minute warm up before running the tested which I ignored both times it failed, perhaps that was it??

There's also a bunch of relays that click during the tests, perhaps they needed some wiping ??

Anyway for now I'm one happy camper.

One thing that I noticed: There's a *BATTERY* on the memory card. There's also checksum test for the calibration values and and a test that will dump them. My unit reports no bad checksum and lots of good ones.

Some Tek scopes have battery backed CMOS memory that holds *FACTORY* calibration values. If the battery goes dead the scope needs to be recalibrated by TEK... which usually costs more than old scopes are worth... so I'm going to log my current calibration values in case my battery dies. I have no idea if I can re-enter the values or if the battery I saw has anything to do with the calibration values, but it seems like a prudent thing to do.

Thanks for the help and encouragement ... now I need some new RF projects to put it to use!

73's Skip WB6YMH

## 35. Chiming in

Yahoo group: hp8924
Date: 2009-01-15 17:57:53 UTC
From: Mark
Topic: 35  Message: 35

It's great to see friends here taking part in this experiment. I took delivery on mine (Also from our friend Joon)in early November. Kevin (N4KLB) drove Sonny, Travis and my units up to Amtronix for calibration while heading north for Christmas vacation. As a few people have pointed out already, Rick at Amtronix is a ham and specializes in 8924C's. He did a nice job at a reasonable price. Rick will be a good resource for us for future parts or repairs, which is a big deal because dome of this older test equipment is impossible to maintain.

So far I've done some basic checks against some other test equipment and the cal seems to be very good. I've also been following Travis'lead on the RF-Tools software and am very interested in that aspect. I'm not ready to say these are the best thing going just yet but I'd been looking for a reasonable service monitor for quite some time and just couldn't justify spending 3,000 for an old IFR unit no matter what. The 8924C seems like a good compromise and comparatively newer technology. If you're not bothered by the little screen and all the soft key menus, I'm finding its pretty easy to use. Rick setting them up so they default right into the analog mode is nice too. There is a lot to learn about programming these things and we have some PCMCIA cards in the works for storing more configurations etc.

Next operation to try is to tune up some cavities. I have a method I've used for quite some time with an HP 8640B generator, an older Avcom Spectrum Analyzer and a really accurate B&K frequency counter. I'll tune up some different cans using the old and new and decide what I like better. I'll probably hang onto what I have now but it sure would be nice to not have a big rack of stuff even though the 8924C is a huge box.

I'll share what I learn here as I go.

73 and a shout out to WB6YMH from the TLB hub of Central Florida!

Mark
KI4SWB

# 36. Re: new owner adventures

Yahoo group: hp8924
Date: 2009-01-16 00:45:08 UTC
From: travis8303
Topic: 19  Message: 36

Skips has a new toy, excellent.
Congratulations on your purchase.

I don't recall that I waited for the 15 minute warm up before doing the tests.
If you run them again without waiting please let us know if they fail or not.

The clicks of the relays, mine clicks during the tests.
The other time it clicks is running the RFT-1000 software: the monitor screen blanks, clicks, and then the screen comes up with the data/info for the particular measurement.
Anyone else hearing or not hearing clicks?

FYI group:
A recent question about onboard memory batteries response: The "8924 has a 3V lithium battery that should last some 15 years. Out of over 1000 892X units through here, I've only seen 2-3 bad."

As owners, if you find any data or new experience that you feel may be helpful for the rest of us to learn, please post it.
Or send it to me and I can post it for you.

I could make a section to the web page and start adding commentary, would be another easy to see what has been discussed.

Thank you,

Travis
AA9NV

--- In hp8924@yahoogroups.com, "wb6ymh" <freebsdfan@...> wrote:
>
> I met Joon today, he's a very nice guy. I had my doubts when I spoke
> to him on the phone but I don't think he liked my low ball offer!
>
> There was no problem running the diags on site, Joon watched
> everything and was very interested in the writeup uploaded here (I
> gave him a copy). I don't think they've ever run any of those tests,
> they just go by the results of the automatic power up self test.
>
> Unfortunately I didn't connect the cables correctly for the audio test
> so it failed a few tests. I was working partly in the sun and it was

> hard to read the screen and I've never touched one of these before.
> It also failed two RF tests.... so I asked Joon if I could try
another
> one.
>
> The second unit was in much rougher shape than the first one
> physically (busted BNC connector on the front panel, partially
broken
> knobs, nameplate falling off) and it also failed some of the RF
tests.
>
> When I asked to try a 3'rd unit he kind of rolled his eyes and said
he
> had sold 200 of them so far and only 5 had been returned. I was
short
> of time and I didn't want to press the issue. He keep saying that I
> had got mine too cheap and would be happy to refund my money (grin).
>
> So ... I brought the first one home, skipped dinner and played with
it
> all night.
>
> Initially 2 of the RF tests failed (in the receiver I believe), but
> they scrolled off the screen before I could really gather what the
> problem was. (I hadn't discovered the stop on failure option yet).
>
> After playing with it for hours I ran the tests again to write down
> the particulars of the failures and report back here to see what it
> meant and ... drum roll... they didn't fail! I ran the tests
several
> times and it seem solid now. There's a warning about a 15 minute
warm
> up before running the tested which I ignored both times it failed,
> perhaps that was it??
>
> There's also a bunch of relays that click during the tests, perhaps
> they needed some wiping ??
>
> Anyway for now I'm one happy camper.
>
> One thing that I noticed: There's a *BATTERY* on the memory card.
> There's also checksum test for the calibration values and and a test
> that will dump them. My unit reports no bad checksum and lots of
good
> ones.
>
> Some Tek scopes have battery backed CMOS memory that holds *FACTORY*
> calibration values. If the battery goes dead the scope needs to be
> recalibrated by TEK... which usually costs more than old scopes are
> worth... so I'm going to log my current calibration values in case

my
> battery dies. I have no idea if I can re-enter the values or if the
> battery I saw has anything to do with the calibration values, but it
> seems like a prudent thing to do.
>
> Thanks for the help and encouragement ... now I need some new RF
> projects to put it to use!
>
> 73's Skip WB6YMH
>

# 37. Re: new owner adventures

Yahoo group: hp8924
Date: 2009-01-16 05:30:12 UTC
From: wb6ymh
Topic: 19  Message: 37

--- In hp8924@yahoogroups.com, "travis8303" <travis8303@...> wrote:
>
> Skips has a new toy, excellent.
> Congratulations on your purchase.
>
> I don't recall that I waited for the 15 minute warm up before doing
> the tests.
> If you run them again without waiting please let us know if they fail
> or not.

I ran them the the next AM after posting my tale as soon as I could
after power up and they passed.

I also found a screen somewhere that had a count of how may times each
relay had been clicked during the life of the instrument! I didn't
write down where, but it was one of the test programs. I think my
counts were in the 1/4 million area. Reminds me of the old Timex
commercial ... "takes a beating and still keeps ticking..."

73's Skip WB6YMH

# 38. Re: microphone connector

Yahoo group: hp8924
Date: 2009-01-16 18:44:48 UTC
From: wb6ymh
Topic: 10  Message: 38

```
--- In hp8924@yahoogroups.com, K6PNG <irlp3358@...> wrote:
>
> Hello All,
> hope everyone is doing great with the 8924c's that we all got for a
damn
> good price. Does anyone know what the mic/acc connector actually is
> for this? I would like to wire up a microphone for testing and i just
> can not figure out what connector this is.
>
> 73
> Ray
```

Well, it's for a microphone (grin). I haven't been able to find the mating connector however. The book describes it as a 8 pin din, but from looking at the front panel it looks like it's a 1/4 turn. All of the 8pin dins I could find had either regular screw threads or were just push in types (PC connector styles).

Assume it's the same as the 8920:

"This 8-pin DIN connector (see Figure 145 on page 580) is used for several functions:
☐ Mic In is used to modulate the RF Generator when the KEY IN line is grounded. This signal is summed with the external MODULATION INPUT signal. The Mod In To field of the RF GENERATOR screen sets the type of modulation (AM or FM) and sensitivity(%AM/Vpk or kHz/Vpk) for this connection.
☐ Key In provides control of the RF Generator's output state (on or off) and automatic switching between the TX TEST and RX TEST screens if the CONFIGURE screen's RX/TX Cntl functions are set to Auto and PTT). Screen switching occurs when this line is grounded.
☐ Key Out 1 and Key Out 2 provide a switch path to control external equipment (such as keying a transmitter). Key Out 1 and Key Out 2 are connected when the Ext TX key field is set to On"

73's Skip WB6YMH

# 39. Re: [hp8924] Re: microphone connector

Yahoo group: hp8924
Date: 2009-01-16 22:37:11 UTC
From: K6PNG
Topic: 10  Message: 39

Skip,
I have all but gave up trying to find the right connector.
Let me and the list members know if you have better luck than me.

73
Ray
K6PNG

wb6ymh wrote:
>
>
> --- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>, K6PNG
> <irlp3358@...> wrote:
> >
> > Hello All,
> > hope everyone is doing great with the 8924c's that we all got for a
> damn
> > good price. Does anyone know what the mic/acc connector actually is
> > for this? I would like to wire up a microphone for testing and i just
> > can not figure out what connector this is.
> >
> > 73
> > Ray
>
> Well, it's for a microphone (grin). I haven't been able to find the
> mating connector however. The book describes it as a 8 pin din, but
> from looking at the front panel it looks like it's a 1/4 turn. All of
> the 8pin dins I could find had either regular screw threads or were
> just push in types (PC connector styles).
>
> Assume it's the same as the 8920:
>
> "This 8-pin DIN connector (see Figure 145 on page 580) is used for
> several functions:
> ? Mic In is used to modulate the RF Generator when the KEY IN line is
> grounded. This signal is summed with the external MODULATION INPUT
> signal. The Mod In To field of the RF GENERATOR screen sets the type
> of modulation (AM or FM) and sensitivity(%AM/Vpk or kHz/Vpk) for this
> connection.
> ? Key In provides control of the RF Generator's output state (on or
> off) and automatic switching between the TX TEST and RX TEST screens
> if the CONFIGURE screen's RX/TX Cntl functions are set to Auto and
> PTT). Screen switching occurs when this line is grounded.
> ? Key Out 1 and Key Out 2 provide a switch path to control external
> equipment (such as keying a transmitter). Key Out 1 and Key Out 2 are

> connected when the Ext TX key field is set to On"
>
> 73's Skip WB6YMH
>
>

# 40. RE: [hp8924] Re: microphone connector

Yahoo group: hp8924
Date: 2009-01-16 23:06:26 UTC
From: Dave Glawson
Topic: 10  Message: 40

All,

I found this while looking around on the net:

http://www.amtronix.com/hp8920mic.htm

Dave - WA6CGR

-----Original Message-----
From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of
K6PNG
Sent: Friday, January 16, 2009 2:37 PM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Re: microphone connector

Skip,
I have all but gave up trying to find the right connector.
Let me and the list members know if you have better luck than me.

73
Ray
K6PNG

wb6ymh wrote:
>
>
> --- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>, K6PNG
> <irlp3358@...> wrote:
> >
> > Hello All,
> > hope everyone is doing great with the 8924c's that we all got for a
> damn
> > good price. Does anyone know what the mic/acc connector actually is
> > for this? I would like to wire up a microphone for testing and i just
> > can not figure out what connector this is.
> >
> > 73
> > Ray
>
> Well, it's for a microphone (grin). I haven't been able to find the
> mating connector however. The book describes it as a 8 pin din, but
> from looking at the front panel it looks like it's a 1/4 turn. All of
> the 8pin dins I could find had either regular screw threads or were
> just push in types (PC connector styles).
>
> Assume it's the same as the 8920:
>

> "This 8-pin DIN connector (see Figure 145 on page 580) is used for
> several functions:
> . Mic In is used to modulate the RF Generator when the KEY IN line is
> grounded. This signal is summed with the external MODULATION INPUT
> signal. The Mod In To field of the RF GENERATOR screen sets the type
> of modulation (AM or FM) and sensitivity(%AM/Vpk or kHz/Vpk) for this
> connection.
> . Key In provides control of the RF Generator's output state (on or
> off) and automatic switching between the TX TEST and RX TEST screens
> if the CONFIGURE screen's RX/TX Cntl functions are set to Auto and
> PTT). Screen switching occurs when this line is grounded.
> . Key Out 1 and Key Out 2 provide a switch path to control external
> equipment (such as keying a transmitter). Key Out 1 and Key Out 2 are
> connected when the Ext TX key field is set to On"
>
> 73's Skip WB6YMH
>
>

---

Yahoo! Groups Links

# 41. Re: microphone connector

Yahoo group: hp8924
Date: 2009-01-17 00:03:53 UTC
From: wb6ymh
Topic: 10  Message: 41

--- In hp8924@yahoogroups.com, K6PNG <irlp3358@...> wrote:
>
> Skip,
> I have all but gave up trying to find the right connector.
> Let me and the list members know if you have better luck than me.
>
> 73
> Ray
> K6PNG

Well I took that as a challenge and an hour+ later I *think* I found it!

http://www.mouser.com/Search/Refine.aspx?Keyword=t3524-501

I ordered one so I'll let you know if it actually fits or not.

73's Skip WB6YMH
(Google is your friend, but even friends give you grief from time to
time !)

# 42. Re: [hp8924] Re: microphone connector

Yahoo group: hp8924
Date: 2009-01-17 02:44:05 UTC
From: K6PNG
Topic: 10  Message: 42

Skip,
That surely looks promising. As soon as you get it
let us know as I am sure several of us would like to make
a Mic up for this unit.

73
Ray
K6PNG
IRLP 3358
AllStar 2353

wb6ymh wrote:
>
>
> --- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>, K6PNG
> <irlp3358@...> wrote:
> >
> > Skip,
> > I have all but gave up trying to find the right connector.
> > Let me and the list members know if you have better luck than me.
> >
> > 73
> > Ray
> > K6PNG
>
> Well I took that as a challenge and an hour+ later I *think* I found it!
>
> http://www.mouser.com/Search/Refine.aspx?Keyword=t3524-501
> <http://www.mouser.com/Search/Refine.aspx?Keyword=t3524-501>
>
> I ordered one so I'll let you know if it actually fits or not.
>
> 73's Skip WB6YMH
> (Google is your friend, but even friends give you grief from time to
> time !)
>
>

# 43. SINAD testing

Yahoo group: hp8924
Date: 2009-01-19 02:18:11 UTC
From: travis8303
Topic: 43  Message: 43

Hello group,

I went through a few manuals and tentatively came up with a SINAD testing process/set up for our service monitors.

1) I haven't ever done this before
2) I am trying to learn
3) Any comments or corrections are very welcome

I uploaded the SINAD sheet to the files area along with one of the manuals. The other was too large so a search will be in order if you want it, its worth getting. One of the main reasons is that the 8924C documentation, at least what I have found so far, is sorely lacking in usable user-friendly information.
The 8920 manuals are much better and while not a match for our machines, they are a good lead in the right direction. With a little interpretation and creative thinking, click and you're in.

Initial testing puts my Maratracs at about 117-120 for 12dB and 115-118 for 20dB SINAD. Are these numbers approximately looking correct?
The best unit is a newer D43 at 120 and 118.

Will test a repeater and some HT's when I get a chance.
Part of the hold up is connecting the audio to the HP.

Anyone else having fun with the machine?

73's group
Travis
AA9NV

# 45. Newie and General Help; Was: Re: Help Menu

Yahoo group: hp8924
Date: 2009-01-22 01:19:40 UTC
From: Mike Shirley
Topic: 6  Message: 45

--- In hp8924@yahoogroups.com, "radioman762" <fwbray@...> wrote:
>
> I discovered that the 8924 has built-in help function that provides
> basic information about accessing and using a number of features.

Great idea. I'll check it out.

I just joined today and I've had my C; 60W for a month now but have done more than simple Rx and Tx. Tend to use my Moto 2200 as I'm still gun shy.

I'm reading the posts and as others before me, we've figured out that the manuals are um...well, marginally helpful. Once I digest the info here, the 8920 manuals and some of the procedures posted here or in Files, I'm sure I'll be more comfy with my C.

It took a month, until today to put a UHF duplexer already tuned to 444.9/449.9 onto the bench and try to figure out how to "tune it". Well here I am for now...maybe tomorrow.

Appreciate everyone's effort in passing along what they have discovered and gleaned.

Mike, WB6WUI, Winthrop, WA and Costa Mesa, CA

# 46. Master Reset

Yahoo group: hp8924
Date: 2009-01-24 14:03:17 UTC
From: Tim Sawyer
Topic: 46  Message: 46

I did the POWERON as a 8920b setup as described in the files section of this Yahoo! group. Unfortunately it bricked my monitor. The eBay seller (Joon) took it back and gave me another. However, I subsequently learned how to do a master reset. I'm not sure if this would have fixed it but here's the procedure anyway.

Simultaneously press and the hold the PRESET and the HZ keys. Turn on the power and continue holding the keys until it beeps.

Good luck,
Tim, WD6AWP

# 47. Mating microphone connector found!

Yahoo group: hp8924
Date: 2009-01-25 00:02:43 UTC
From: wb6ymh
Topic: 10  Message: 47

YES, that's it! It fits!

73's Skip WB6YMH
--- In hp8924@yahoogroups.com, K6PNG <irlp3358@...> wrote:
>
> Skip,
> That surely looks promising. As soon as you get it
> let us know as I am sure several of us would like to make
> a Mic up for this unit.
>
> 73
> Ray
> K6PNG
> IRLP 3358
> AllStar 2353
>
>
> wb6ymh wrote:
> >
> >
> > --- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>,
K6PNG
> > <irlp3358@> wrote:
> > >
> > > Skip,
> > > I have all but gave up trying to find the right connector.
> > > Let me and the list members know if you have better luck than me.
> > >
> > > 73
> > > Ray
> > > K6PNG
> >
> > Well I took that as a challenge and an hour+ later I *think* I
found it!
> >
> > http://www.mouser.com/Search/Refine.aspx?Keyword=t3524-501
> > <http://www.mouser.com/Search/Refine.aspx?Keyword=t3524-501>
> >
> > I ordered one so I'll let you know if it actually fits or not.
> >
> > 73's Skip WB6YMH
> > (Google is your friend, but even friends give you grief from time to
> > time !)
> >
> >

>

# 48. Re: [hp8924] Mating microphone connector found!

Yahoo group: hp8924
Date: 2009-01-25 00:08:46 UTC
From: K6PNG
Topic: 10  Message: 48

Skip,
Does it lock in place properly?

73
Ray
K6PNG

wb6ymh wrote:
>
>
> YES, that's it! It fits!
>
> 73's Skip WB6YMH
> --- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>, K6PNG
> <irlp3358@...> wrote:
> >
> > Skip,
> > That surely looks promising. As soon as you get it
> > let us know as I am sure several of us would like to make
> > a Mic up for this unit.
> >
> > 73
> > Ray
> > K6PNG
> > IRLP 3358
> > AllStar 2353
> >
> >
> > wb6ymh wrote:
> > >
> > >
> > > --- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>
> <mailto:hp8924%40yahoogroups.com>,
> K6PNG
> > > <irlp3358@> wrote:
> > > >
> > > > Skip,
> > > > I have all but gave up trying to find the right connector.
> > > > Let me and the list members know if you have better luck than me.
> > > >
> > > > 73
> > > > Ray
> > > > K6PNG
> > >
> > > Well I took that as a challenge and an hour+ later I *think* I

> found it!
> > >
> > > http://www.mouser.com/Search/Refine.aspx?Keyword=t3524-501
> <http://www.mouser.com/Search/Refine.aspx?Keyword=t3524-501>
> > > <http://www.mouser.com/Search/Refine.aspx?Keyword=t3524-501
> <http://www.mouser.com/Search/Refine.aspx?Keyword=t3524-501>>
> > >
> > > I ordered one so I'll let you know if it actually fits or not.
> > >
> > > 73's Skip WB6YMH
> > > (Google is your friend, but even friends give you grief from time to
> > > time !)
> > >
> > >
> >
>
>

# 49. Re: Mating microphone connector found!

Yahoo group: hp8924
Date: 2009-01-25 01:14:40 UTC
From: wb6ymh
Topic: 10  Message: 49

--- In hp8924@yahoogroups.com, K6PNG <irlp3358@...> wrote:
>
> Skip,
> Does it lock in place properly?
>
> 73
> Ray
> K6PNG

Yes. The catalog page makes it look like a cheap plastic connector, but in reality there's a fairly robust cast metal shell underneath. The locking ring is plastic and there's a plastic cover over the back shell.

It is from the same family as the old style PC AT keyboard connector, but with 8 pins and a bayonet locking ring. An 8 pin DIN connector without the locking ring would probably fit, but pull right out.

I wouldn't say this you could lift the 8924C by this connector, but it would try!

73's Skip WB6YMH

# 50. mic connector pinout

Yahoo group: hp8924
Date: 2009-01-25 22:23:15 UTC
From: wb6ymh
Topic: 50  Message: 50

I've confirmed that the 8924C's mic connector pinout matches that of the 8920 shown in figure 145 on page 580 of http://cp.literature.agilent.com/litweb/pdf/08920-90221.pdf .

I tried to upload the pdf to the group's file area, but it's too big. Apparently there's a 5mb file size limit.

I won't list the pin numbers since HP didn't for some reason.

If you haven't already you should download the 8920 manual even if you're not interested in the Mic input as it has tons of information on LMR usage of the 8924c not covered in the 8924C manuals.

My finger tip modulates the 8924c with 60hz hum just fine, now to wire up a mic.

73's Skip WB6YMH

# 51. external monitor.

Yahoo group: hp8924
Date: 2009-01-26 04:53:40 UTC
From: K6PNG
Topic: 50  Message: 51

Hello All,

Has anyone thought of the possibility that we could
use an external monitor on the 8924c's? I notice that it appears
to have the ability, anyone know what kind of monitor it takes?
It would sure make things easier on the eyes looking at a nice big monitor.

73
Ray
K6PNG

# 52. Re: external monitor.

Yahoo group: hp8924
Date: 2009-01-26 06:15:06 UTC
From: wb6ymh
Topic: 50  Message: 52

--- In hp8924@yahoogroups.com, K6PNG <irlp3358@...> wrote:
>
> Hello All,
>
> Has anyone thought of the possibility that we could
> use an external monitor on the 8924c's? I notice that it appears
> to have the ability, anyone know what kind of monitor it takes?
> It would sure make things easier on the eyes looking at a nice big
monitor.
>
> 73
> Ray
> K6PNG

I tried plugging it into my 55 inch big screen TV... no go.

The 8920 manual says "CRT VIDEO OUTPUT
This connector provides a signal for using an external video monitor.
The signal provides a duplicate of the Test Set's screen.
Operating Considerations
A multi-sync monitor must be used to match the video sync rate of 19.2
kHz. Examples of this type of monitor include - Mitsubishi Diamond
Scan, NEC 3D, Leading Edge CMC-141M, and Sony CPD-1302."

73's Skip WB6YMH

# 53. numb receiver trap!

Yahoo group: hp8924
Date: 2009-01-26 07:04:58 UTC
From: wb6ymh
Topic: 53  Message: 53

Make sure you have your 8924C configured to show the signal generator output level into a 50 ohm load, not emf. If you're in emf mode like I was you'll think your receivers are 6 db worse than they actually are!

In the past I've tested most of my rigs using a borrowed IFR and over the last week of playing with my 8924C I was starting to suspect the signal generator was stingy. Today while I was reading the 8920 manual I came across the 50ohm/EMF setting and found I'd been in EMF mode all along.

The configuration screen also has entries to adjust the antenna input and duplexer output. Mine were both at 0db, but if they were that would also be a possible source of confusion if your instrument came configured with some odd values.

73's Skip WB6YMH

# 54. Re: SINAD testing

Yahoo group: hp8924
Date: 2009-01-31 17:31:00 UTC
From: wb6ymh
Topic: 43  Message: 54

--- In hp8924@yahoogroups.com, "travis8303" <travis8303@...> wrote:
>
> Hello group,
>
> I went through a few manuals and tentatively came up with a SINAD
> testing process/set up for our service monitors.
>
> 1) I haven't ever done this before
> 2) I am trying to learn
> 3) Any comments or corrections are very welcome
>
> I uploaded the SINAD sheet to the files area along with one of the
> manuals. The other was too large so a search will be in order if you
> want it, its worth getting. One of the main reasons is that the 8924C
> documentation, at least what I have found so far, is sorely lacking
> in usable user-friendly information.
> The 8920 manuals are much better and while not a match for our
> machines, they are a good lead in the right direction. With a little
> interpretation and creative thinking, click and you're in.
>
> Initial testing puts my Maratracs at about 117-120 for 12dB and 115-
> 118 for 20dB SINAD. Are these numbers approximately looking correct?
> The best unit is a newer D43 at 120 and 118.
>
> Will test a repeater and some HT's when I get a chance.
> Part of the hold up is connecting the audio to the HP.

I hear that, my HT (a Kenwood TH-G71) takes a 2.5 mm plug. After
buying an adapter I measured the following:

2meters:
12 db SINAD .162 uV (-125dbm)
20 db quieting .223 uV (-120dbm)

440:
12 db SINAD .154 uV (-123dbm)
20 db quieting .208 uv (-121dbm)

I guess I'm old school, my head works in microvolts and 20db quieting.
I don't think in terms of SINAD and dbm.

> Anyone else having fun with the machine?

Yes I'm having fun. Other than programming the thing in iBASIC or
talking to it via HPIB/GPIB I think I've now played with all of the
functions. (Well except for the CDMA stuff, but I do have an old CDMA

phone ... nah.)

73's Skip WB6YMH

# 55. Scope

Yahoo group: hp8924
Date: 2009-02-01 12:58:10 UTC
From: travis8303
Topic: 55  Message: 55

How do I set the 8924C up for performing the test on Page 7 of this PDF?
http://www.repeater-builder.com/ge/lbi-library/lbi-38503.pdf
Here are the instructions:

Connect scope, signal generator, and probe as shown in Figure 6.
Set signal generator level for 3 to 5 mV and modulate with 20 Hz at 12 kHz deviation.
With probe between P904-4 (or J601-1) and A-, tune L504, L520, L521, C521, T601, T602, and T603 for double trace as shown on scope pattern.
Preset T601-T603 to top of coil form before tuning.

I can connect everything but am not setting something correctly because I never get any waveform. The station is a working unit, I am just trying to see the waveform.
I have two different probes, one HP 1:1 and a Tectronics 10X, only tried the HP so far.

Same for the squelch waveform instructions on page 11, I must be missing a common thing to setting up the scope.

Any ideas or if you have already done similar testing would you please post or send them over?

Travis
AA9NV

# 56. Alignment, waveforms, more info

Yahoo group: hp8924
Date: 2009-02-01 13:30:38 UTC
From: travis8303
Topic: 56  Message: 56

Using the same reference:
http://www.repeater-builder.com/ge/lbi-library/lbi-38503.pdf

Question 1)
Page 4 spells out the alignment procedure, which I walked through and ended up with the rxvr going from -105 to -109, an improvement in my book but I am a rookie.
Is there a way to see the rcvr in a waveform similar to running the tracking generator on a duplexer?

Question 2)
Page 5 talks about the various methods of ICOM frequency adjustment. I tried two of them and am unsure about a third.
The first I tried was A.2, direct measuring at the junction of C411 and L402, which it states as three times the ICOM frequency? Three times plus the IF is where mine measured.
The next I tried was B.1, "'Count' the developed IF frequency at the tap of Z602-R2 on the IFAS board." This measurement was not the same as the first one and both produced similar readings?
The last one I attempted was B.2 but didn't get the loose coupling and of course, didn't get the beat in the oscilloscope either. :(

I have a GE test set but did not see results with the D setting for the OSCILLATOR/MULTIPLIER while adjusting 402 the second time.
The B setting didn't read either but my DVM worked very well in the correct socket metering positions for RF AMPLIFIER & SELECTIVITY.
Ideas?

Ok back to playing again today...and trying to learn.

Another manual with good information, seems to pertain as much or more than the 8920 manuals:
http://www.sambow.com/image/image_Files/8921A.pdf
Digging around for Oscilloscope information.

Travis
AA9NV

# 57. New Owner Question - Input Attenuation

Yahoo group: hp8924
Date: 2009-03-26 16:30:00 UTC
From: John
Topic: 57  Message: 57

I've had my 8924C for a couple of weeks now so I'm beginning to find my way around with a little less panic. The more I learn, the more I am impressed with this piece of equipment. Mine is a low-power (3 watt) unit. I thought I could use a 20 db (150 watt) attenuator on the RF input and then configure the attenuation for 20 db to provide a direct readout of RF power. Apparently not. Is anyone else using a 3 watt input 8924 with in-line attenuation? I can figure the power loss through the attenuator manually. I'm just looking for ways to make life easier and learn along the way. Thanks to everyone for you willingness to share what you've learned. This group is a GREAT place for a new owner to get up to speed.

73
John / WB5NFC

# 58. Re: external monitor.

Yahoo group: hp8924
Date: 2009-03-26 16:36:02 UTC
From: John
Topic: 50  Message: 58

Is anyone using one of these monitors - or any other multi-sync? Just curious about the video quality on a larger screen as opposed to the 8924's crt.

John

> Operating Considerations A multi-sync monitor must be used to match the video sync rate of 19.2 kHz. Examples of this type of monitor include - Mitsubishi Diamond Scan, NEC 3D, Leading Edge CMC-141M, and Sony CPD-1302."
>
> 73's Skip WB6YMH
>

# 59. power on issue

Yahoo group: hp8924
Date: 2009-06-07 19:23:59 UTC
From: wb6ymh
Topic: 59  Message: 59

I don't know if anyone else has had this problem or not, but it really scared me when I ran into it. If leave my 9824c unplugged for a while it will not turn back on when I plug it in, all I get is a clicking noise about once a second. Happily if I leave it plugged in (turned off) for a while (15 minutes or so) it'll come back to life.

If I unplug it briefly there's no problem and if I leave it plugged in and turned off there's no problem either.

I suspect this is not normal and at some point it's going to die and I'll have to deal with the real problem.

I've measured the off power both after it's been on for a while and immediately after it's been unplugged for a while and it's 5 watts in both cases. It has been suggested that perhaps there was an oven or something that needed to warm up after an extended period of being unplugged.

Has anyone else had this issued?

73's Skip WB6YMH

# 60. Re: [hp8924] power on issue

Yahoo group: hp8924
Date: 2009-06-07 20:34:27 UTC
From: John (WB5NFC)
Topic: 59  Message: 60

Hi Skip. Mine's been working like a champ since I got it - but I do leave it plugged in. I seem to remember someone telling me that they will take some time to start if they have been unplugged for an extended period. That's totally undocumented, fuzzy-memory data, so don't depend on it <g>.

John / WB5NFC

---
From: wb6ymh <freebsdfan@...>
To: hp8924@yahoogroups.com
Sent: Sunday, June 7, 2009 2:23:59 PM
Subject: [hp8924] power on issue

I don't know if anyone else has had this problem or not, but it
really scared me when I ran into it. If leave my 9824c unplugged for
a while it will not turn back on when I plug it in, all I get is a
clicking noise about once a second. Happily if I leave it plugged in
(turned off) for a while (15 minutes or so) it'll come back to life.

If I unplug it briefly there's no problem and if I leave it plugged in
and turned off there's no problem either.

I suspect this is not normal and at some point it's going to die
and I'll have to deal with the real problem.

I've measured the off power both after it's been on for a while and
immediately after it's been unplugged for a while and it's 5 watts
in both cases. It has been suggested that perhaps there was an
oven or something that needed to warm up after an extended period
of being unplugged.

Has anyone else had this issued?

73's Skip WB6YMH

# 61. Re: power on issue

Yahoo group: hp8924
Date: 2009-06-09 01:05:09 UTC
From: radionut500
Topic: 59  Message: 61

--- In hp8924@yahoogroups.com, "John \(WB5NFC\)" <wb5nfc@...> wrote:
>
> Hi Skip. Mine's been working like a champ since I got it - but I do leave it plugged in. I seem to remember someone telling me that they will take some time to start if they have been unplugged for an extended period. That's totally undocumented, fuzzy-memory data, so don't depend on it <g>.
>
> John / WB5NFC
>
>
>
>
> _____
> From: wb6ymh <freebsdfan@...>
> To: hp8924@yahoogroups.com
> Sent: Sunday, June 7, 2009 2:23:59 PM
> Subject: [hp8924] power on issue
>
>
>
>
>
> I don't know if anyone else has had this problem or not, but it
> really scared me when I ran into it. If leave my 9824c unplugged for
> a while it will not turn back on when I plug it in, all I get is a
> clicking noise about once a second. Happily if I leave it plugged in
> (turned off) for a while (15 minutes or so) it'll come back to life.
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> If I unplug it briefly there's no problem and if I leave it plugged in
> and turned off there's no problem either.
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> I suspect this is not normal and at some point it's going to die
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> immediately after it's been unplugged for a while and it's 5 watts
> in both cases. It has been suggested that perhaps there was an
> oven or something that needed to warm up after an extended period
> of being unplugged.
>
> Has anyone else had this issued?
>
> 73's Skip WB6YMH
>

I keep mine unplugged when it's not being used. Too many thunderstorms around here to risk having something sneak in over the power line. Don't hear any clicking when I start it up in this condition. Takes about 10 seconds for POST beep, then about another 35 or 40 for POWERON configuration as I have it set to come up.
One thing I have noticed is the power supply seems to run hot in mine.

# 62. Re: power on issue

Yahoo group: hp8924
Date: 2009-06-09 22:16:51 UTC
From: metroemt_jeff
Topic: 59  Message: 62

You have a single commponent bad on one of the power boards inside the main power supply. Took me a bit to locate the defective part. Let me know if you are interested in having it repaired. You can email me outside of group for details.

Jeff

--- In hp8924@yahoogroups.com, "radionut500" <flinston@...> wrote:
>
> --- In hp8924@yahoogroups.com, "John \(WB5NFC\)" <wb5nfc@> wrote:
> >
> > Hi Skip. Mine's been working like a champ since I got it - but I do leave it plugged in. I seem to remember someone telling me that they will take some time to start if they have been unplugged for an extended period. That's totally undocumented, fuzzy-memory data, so don't depend on it <g>.
> >
> > John / WB5NFC
> >
> >
> >
> >
> > _____
> > From: wb6ymh <freebsdfan@>
> > To: hp8924@yahoogroups.com
> > Sent: Sunday, June 7, 2009 2:23:59 PM
> > Subject: [hp8924] power on issue
> >
> >
> >
> >
> >
> > I don't know if anyone else has had this problem or not, but it
> > really scared me when I ran into it. If leave my 9824c unplugged for
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> > (turned off) for a while (15 minutes or so) it'll come back to life.
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> > If I unplug it briefly there's no problem and if I leave it plugged in
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> > in both cases. It has been suggested that perhaps there was an

> > oven or something that needed to warm up after an extended period
> > of being unplugged.
> >
> > Has anyone else had this issued?
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> > 73's Skip WB6YMH
> >
>
> I keep mine unplugged when it's not being used. Too many thunderstorms around here to risk having something sneak in over the power line. Don't hear any clicking when I start it up in this condition. Takes about 10 seconds for POST beep, then about another 35 or 40 for POWERON configuration as I have it set to come up.
> One thing I have noticed is the power supply seems to run hot in mine.
>

# 63. Re: [hp8924] Re: power on issue

Yahoo group: hp8924
Date: 2009-06-10 02:21:09 UTC
From: Camilo So
Topic: 59  Message: 63

Hi Jeff,
Why not post it here so every one will learn something from you, Thank you

Camilo

----- Original Message -----
From: metroemt_jeff
To: hp8924@yahoogroups.com
Sent: Tuesday, June 09, 2009 6:16 PM
Subject: [hp8924] Re: power on issue

You have a single commponent bad on one of the power boards inside the main power supply. Took me a bit to locate the defective part. Let me know if you are interested in having it repaired. You can email me outside of group for details.

Jeff

--- In hp8924@yahoogroups.com, "radionut500" <flinston@...> wrote:
>
> --- In hp8924@yahoogroups.com, "John \(WB5NFC\)" <wb5nfc@> wrote:
> >
> > Hi Skip. Mine's been working like a champ since I got it - but I do leave it plugged in. I seem to remember someone telling me that they will take some time to start if they have been unplugged for an extended period. That's totally undocumented, fuzzy-memory data, so don't depend on it <g>.
> >
> > John / WB5NFC
> >
> >
> >
> >
> > _____
> > From: wb6ymh <freebsdfan@>
> > To: hp8924@yahoogroups.com
> > Sent: Sunday, June 7, 2009 2:23:59 PM
> > Subject: [hp8924] power on issue
> >
> >
> >
> >
> >
> > I don't know if anyone else has had this problem or not, but it
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> >
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> One thing I have noticed is the power supply seems to run hot in mine.
>

# 64. Re: power on issue

Yahoo group: hp8924
Date: 2009-06-10 14:03:00 UTC
From: wb6ymh
Topic: 59  Message: 64

--- In hp8924@yahoogroups.com, "metroemt_jeff" <jeff@...> wrote:
>
> You have a single commponent bad on one of the power boards inside the main power supply. Took me a bit to locate the defective part. Let me know if you are interested in having it repaired. You can email me outside of group for details.
>
> Jeff

When it turns into a hard failure I'll certainly be interested, but
I don't want to ship the thing. I live within driving distance
of test equipment surplus so I'll probably try him first if I can't
fix it myself. I'd be interested knowing what the component was,
but if you don't care to say I certainly understand.

I gather the fan is DC powered? It doesn't spin up when the problem
occurs which was kind of surprising.

73's Skip WB6YMH
>
>
>
>
> --- In hp8924@yahoogroups.com, "radionut500" <flinston@> wrote:
> >
> > --- In hp8924@yahoogroups.com, "John \(WB5NFC\)" <wb5nfc@> wrote:
> > >
> > > Hi Skip. Mine's been working like a champ since I got it - but I do leave it plugged in. I seem to remember someone telling me that they will take some time to start if they have been unplugged for an extended period. That's totally undocumented, fuzzy-memory data, so don't depend on it <g>.
> > >
> > > John / WB5NFC
> > >
> > >
> > >
> > >
> > > _____
> > > From: wb6ymh <freebsdfan@>
> > > To: hp8924@yahoogroups.com
> > > Sent: Sunday, June 7, 2009 2:23:59 PM
> > > Subject: [hp8924] power on issue
> > >
> > >
> > >
> > >
> > >

> > > I don't know if anyone else has had this problem or not, but it
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> > > (turned off) for a while (15 minutes or so) it'll come back to life.
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> > > and I'll have to deal with the real problem.
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> > >
> > > Has anyone else had this issued?
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> > > 73's Skip WB6YMH
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> >
> > I keep mine unplugged when it's not being used. Too many thunderstorms around here to risk having something sneak in over the power line. Don't hear any clicking when I start it up in this condition. Takes about 10 seconds for POST beep, then about another 35 or 40 for POWERON configuration as I have it set to come up.
> > One thing I have noticed is the power supply seems to run hot in mine.
> >
>

# 65. Power Supply repair

Yahoo group: hp8924
Date: 2009-06-11 05:33:54 UTC
From: Jeff Mathia
Topic: 65  Message: 65

If someone wants to send me a service manual for this unit then in exchange I will post the fix. I spent several hours troubleshooting this problem. I replaced the one component that causes the problem and one other that contributed and unit has worked flawlessly since. I have asked in the past but received no response, so I hope maybe an exchange of information would be fair to all in the group. Based on a number of these supplies I have fixed so far I am confident that it will probably happen to your unit.

Thanks for understanding

Jeff

# 66. Re: Power Supply repair

Yahoo group: hp8924
Date: 2009-06-11 14:53:51 UTC
From: wb6ymh
Topic: 65  Message: 66

I tried to upload the service information I was able to find
to the Yahoo group when I first got my 8924c, but it's too big
for Yahoo. It's also too big for my email program. You can however
download it directly from Agilent here:
http://cp.literature.agilent.com/litweb/pdf/08924-90061.pdf

It's an Assembly Level Repair Manual so it doesn't have complete
schematics, but it does have some useful information (like a list
of known spurs and the source!). For my problem it basically
tells you to "replace the power supply".

I've corresponded with Jeff off list and his quote was very
reasonable so I'm planning on having him fix my supply.

73's Skip WB6YMH

--- In hp8924@yahoogroups.com, "Jeff Mathia" <jeff@...> wrote:
>
> If someone wants to send me a service manual for this unit then in exchange
> I will post the fix. I spent several hours troubleshooting this problem. I
> replaced the one component that causes the problem and one other that
> contributed and unit has worked flawlessly since. I have asked in the past
> but received no response, so I hope maybe an exchange of information would
> be fair to all in the group. Based on a number of these supplies I have
> fixed so far I am confident that it will probably happen to your unit.
>
>
>
> Thanks for understanding
>
>
>
> Jeff
>

# 67. Re: power on issue

Yahoo group: hp8924
Date: 2009-06-12 16:37:31 UTC
From: travis8303
Topic: 59  Message: 67

Skip,

If it helps, I don't normally work on service monitors but the power supply is fairly easy to remove.

There are pictures of the service monitor opened up on my web site.

http://aa9nv.r2i.net/HP8924C.htm

I replaced the power supply - pretty easy, the regulator board - more time consuming but not bad, and one of the BNC jacks on the front - more difficult.

I have not opened up a power supply but Rick at Amtronix is very knowledgeable regarding the HP8924C and its components.
http://www.amtronix.com/
He has worked on three of our 8924C units and walked me through getting parts and the repairs on one due to a UPS shipping disaster. UPS interprets "handle with care" stickers to mean "throw it off the truck".

Yup, still sore about it but the service monitor seems none the worse for the experience and has provided hours of service without a glitch.

Travis
AA9NV

--- In hp8924@yahoogroups.com, "wb6ymh" <freebsdfan@...> wrote:
>
> --- In hp8924@yahoogroups.com, "metroemt_jeff" <jeff@> wrote:
> >
> > You have a single commponent bad on one of the power boards inside the main power supply. Took me a bit to locate the defective part. Let me know if you are interested in having it repaired. You can email me outside of group for details.
> >
> > Jeff
>
> When it turns into a hard failure I'll certainly be interested, but
> I don't want to ship the thing. I live within driving distance
> of test equipment surplus so I'll probably try him first if I can't
> fix it myself. I'd be interested knowing what the component was,
> but if you don't care to say I certainly understand.
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> I gather the fan is DC powered? It doesn't spin up when the problem
> occurs which was kind of surprising.
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> 73's Skip WB6YMH
> >
> >

> >
> >
> > --- In hp8924@yahoogroups.com, "radionut500" <flinston@> wrote:
> > >
> > > --- In hp8924@yahoogroups.com, "John \(WB5NFC\)" <wb5nfc@> wrote:
> > > >
> > > > Hi Skip. Mine's been working like a champ since I got it - but I do leave it plugged in. I seem to remember someone telling me that they will take some time to start if they have been unplugged for an extended period. That's totally undocumented, fuzzy-memory data, so don't depend on it <g>.
> > > >
> > > > John / WB5NFC
> > > >
> > > >
> > > >
> > > >
> > > > _____
> > > > From: wb6ymh <freebsdfan@>
> > > > To: hp8924@yahoogroups.com
> > > > Sent: Sunday, June 7, 2009 2:23:59 PM
> > > > Subject: [hp8924] power on issue
> > > >
> > > >
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> > > > (turned off) for a while (15 minutes or so) it'll come back to life.
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> > > > I've measured the off power both after it's been on for a while and
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> > > > in both cases. It has been suggested that perhaps there was an
> > > > oven or something that needed to warm up after an extended period
> > > > of being unplugged.
> > > >
> > > > Has anyone else had this issued?
> > > >
> > > > 73's Skip WB6YMH
> > > >
> > >
> > > I keep mine unplugged when it's not being used. Too many thunderstorms around here to

risk having something sneak in over the power line. Don't hear any clicking when I start it up in this condition. Takes about 10 seconds for POST beep, then about another 35 or 40 for POWERON configuration as I have it set to come up.
> > > One thing I have noticed is the power supply seems to run hot in mine.
> > >
> >
>

# 68. As promised

Yahoo group: hp8924
Date: 2009-06-13 05:50:44 UTC
From: metroemt_jeff
Topic: 68  Message: 68

I will get the exact part ID location next time I have one opened up. Two electrolytic caps need to be replaced. The small one directly above the Green LED (1uf 50V) and on the second stand up baord adjacent to the green LED replace the 47uf 50V electrolytic. This is the one causing the supply not to turn on and click. I will get a photo and part location on the next one I work on. Be sure to apply heat sink compound to the heat sinks that attach to the top cover.

Hope this helps

Jeff

# 69. HP8924C RF Analyzer scan

Yahoo group: hp8924
Date: 2009-06-19 14:17:49 UTC
From: james a fosse
Topic: 69  Message: 69

Hello,

I just received a HP8924C Monday. Wednesday, I was able to get the RF Analyzer to scan frequencies and lock onto the transmitter output. I changed something and can no longer get the RF analyzer section to scan. It just stays at the frequency set in the "tune frequency" box. It does not matter whether the "tune mode" is set to auto or manual.

Can anyone help me find the setting that I changed and restore it?

regards,

jim fosse
KI6NJF

# 70. Sweep Setup

Yahoo group: hp8924
Date: 2009-06-26 01:40:27 UTC
From: John
Topic: 70  Message: 70

I've been enjoying my 8924 for the last few months. I have made considerable progress on using it for basic functions. One of the things I've NOT been able to figure out is the sweep/tracking capability. I was the successful bidder on an Eagle Loss Bridge Kit recently, so I need to get smarter. Can anyone give me a kick-start?

Thanks!

John / WB5NFC

# 71. Re: Sweep Setup

Yahoo group: hp8924
Date: 2009-06-26 17:33:38 UTC
From: jkoltner
Topic: 70  Message: 71

--- In hp8924@yahoogroups.com, "John" <wb5nfc@...> wrote:
> I've been enjoying my 8924 for the last few months. I have made considerable progress on using it for basic functions. One of the things I've NOT been able to figure out is the sweep/tracking capability.

Have you looked at Help->Spectrum Analyzer (2 of 2) ? It describes how you enable the tracking generator.

---Joel

# 72. Re: Sweep Setup

Yahoo group: hp8924
Date: 2009-06-26 23:46:06 UTC
From: wb6ymh
Topic: 70  Message: 72

--- In hp8924@yahoogroups.com, "John" <wb5nfc@...> wrote:
>
> I've been enjoying my 8924 for the last few months. I have made considerable progress on using it for basic functions. One of the things I've NOT been able to figure out is the sweep/tracking capability. I was the successful bidder on an Eagle Loss Bridge Kit recently, so I need to get smarter. Can anyone give me a kick-start?
>
> Thanks!
>
> John / WB5NFC

The 8924C manual leaves much (all) to be desired. One trick is to use the manual for the 8920B instead. At least it has a (short) section on the tracking generator. It's not a great manual either but with and some playing around you should be able to figure it out. I haven't found any differences between the operation of the 8920b and the 8924c. Some screens are probably different as some people have said the 8920b is easier to use, but I've never used a 8920b.

You can download the manual from here:
http://www.home.agilent.com/agilent/editorial.jspx?cc=US&lc=eng&ckey=1000001120:epsg:man&nid=-11143.0.00&id=1000001120:epsg:man

Hints of the operation of the tracking generator start on page 522.

# 73. Sweep Setup

Yahoo group: hp8924
Date: 2009-07-01 13:53:37 UTC
From: John
Topic: 70  Message: 73

I think I've got a handle on basic sweep setup and operation. The 8924 is undoubtedly the most robust pieces of test equipment I have ever owned and one of the most frustrating at times. With everyone's help and encouragement, I may feel like I know how to operate this beast some day. Thanks for sharing your expertise the secrets you've learned.

73
John

# 74. Changing the power ration?

Yahoo group: hp8924
Date: 2009-07-19 00:50:38 UTC
From: Gerald Bishop
Topic: 74  Message: 74

Have one of the 3 watters. Has anyone on here figured what has to be done to raise the power rating to 60 or 100 watts. Am told it can be done. Need to know what has to be changed and what the part is !TKS,jerry

# 75. Re: Changing the power ration?

Yahoo group: hp8924
Date: 2009-07-19 04:56:49 UTC
From: wb6ymh
Topic: 74  Message: 75

--- In hp8924@yahoogroups.com, "Gerald Bishop" <orangetruck38@...> wrote:
>
> Have one of the 3 watters. Has anyone on here figured what has to be done to raise the power rating to 60 or 100 watts. Am told it can be done. Need to know what has to be changed and what the part is !TKS,jerry

New power attenuator and heat sink plus some software on a memory card
with calibration values. There is a guy selling upgrade kits
on eBay, but they aren't cheap ($450)

http://cgi.ebay.com/HP-8920A-8920B-8924C-100-Watt-high-power-upgrade-kit_W0QQitemZ270377221807QQcmdZViewItemQQptZLH_DefaultDomain_0?hash=item3ef3bcfeaf&_trksid=p3286.m20.l1116

73's Skip WB6YMH

# 76. Re: Changing the power ration?

Yahoo group: hp8924
Date: 2009-07-19 04:59:10 UTC
From: wb6ymh
Topic: 74  Message: 76

--- In hp8924@yahoogroups.com, "wb6ymh" <freebsdfan@...> wrote:
>
> --- In hp8924@yahoogroups.com, "Gerald Bishop" <orangetruck38@> wrote:
> >
> > Have one of the 3 watters. Has anyone on here figured what has to be done to raise the power rating to 60 or 100 watts. Am told it can be done. Need to know what has to be changed and what the part is !TKS,jerry
>
> New power attenuator and heat sink plus some software on a memory card
> with calibration values. There is a guy selling upgrade kits
> on eBay, but they aren't cheap ($450)
>
> http://cgi.ebay.com/HP-8920A-8920B-8924C-100-Watt-high-power-upgrade-kit_W0QQitemZ270377221807QQcmdZViewItemQQptZLH_DefaultDomain_0?hash=item3ef3bcfeaf&_trksid=p3286.m20.l1116
>
> 73's Skip WB6YMH

The 60watt version is a *lot* cheaper ($152): http://cgi.ebay.com/HP-8920A-8920B-8924C-60-Watt-high-power-upgrade_W0QQitemZ270377234524QQcmdZViewItemQQptZLH_DefaultDomain_0?hash=item3ef3bd305c&_trksid=p3286.c0.m14&_trkparms=65%3A12|66%3A2|39%3A1|72%3A1205|293%3A1|294%3A50

73's Skip WB6YMH

# 77. 8924C startup test and failure rate

Yahoo group: hp8924
Date: 2009-07-21 09:47:07 UTC
From: cruizzer77
Topic: 77  Message: 77

Hi

I don´t have a 8924C yet, but it would probably be the only service monitor I could afford as a replacement for my broken down Stabilock. Probably somebody can answer a few questions:

- Does the 8924C have a startup self-test which will tell the user unmistakable if something is wrong?
- The lowest prices are usually from surplus dealers who haven´t tested the units in detail. Has anyone bought from one, what is the experience and how would you rate the risk of getting a broken one?

Regards
Martin

# 78. Re: 8924C startup test and failure rate

Yahoo group: hp8924
Date: 2009-07-21 14:42:47 UTC
From: jkoltner
Topic: 77  Message: 78

--- In hp8924@yahoogroups.com, "cruizzer77" <atlantis7@...> wrote:
> - Does the 8924C have a startup self-test which will tell the user
> unmistakable if something is wrong?

It does a few self-tests at startup, but there's plenty that might go wrong that the startup tests won't catch. There's a bunch of extended self-tests that are available through a utility menu, though, and if all of those pass (most requiring looping back an output to an input), there's a very good chance everything is AOK. (Running all the tests takes a good 10 minutes or so.)

> - The lowest prices are usually from surplus dealers who haven´t
> tested the units in detail. Has anyone bought from one, what is the
> experience and how would you rate the risk of getting a broken one?

I bought an untested 8924C from an eBay dealer and, indeed, it was broken -- the back-up battery was dead (easy fix) and a couple of the self-tests failed (not so easy fix -- there is no component-level service manual available for the 8924C). It was also rather more beat up than the dealer's "representative" photo suggested. He would have preferred to exchange it with another one to "try again," but didn't give me any problems when I told him flat out I just wanted a refund.

Moral: Be sure you buy from someone who's offering a money back return policy if you want something that "just works." Also note you'll still be out $50-$100 if you have to ship something back -- these things are heavy!

After returning the first one, I decided to pay noticeably more money (about 30% or so) to get a unit from Amtronix. Besides being fully tested, it includes a new CRT (nice and bright), the latest firmware (although AFAIK the last few firmware updates were almost entirely related to the cell phone-testing side of the 8924C; the analog radio stuff was completely stable for ages) and a certificate of calibration. I'm happy with it...

---Joel

# 79. Re: 8924C startup test and failure rate

Yahoo group: hp8924
Date: 2009-07-21 14:57:36 UTC
From: wb6ymh
Topic: 77  Message: 79

--- In hp8924@yahoogroups.com, "cruizzer77" <atlantis7@...> wrote:
>
> Hi
>
> I don´t have a 8924C yet, but it would probably be the only service
> monitor I could afford as a replacement for my broken down Stabilock.
> Probably somebody can answer a few questions:
>
> - Does the 8924C have a startup self-test which will tell the user
> unmistakable if something is wrong?

There is an automatic self test that runs on power up, but there are
also extensive tests you can run that require external cables to
connect outputs to inputs. If the automatic self test passes that's
good but not a 100% indication of complete health. I live within
driving distance of one of the main sources (Test Equipment surplus
in Anaheim) and he allowed me to run the extended test on the unit
I bought. If all of those tests run you know you're in good shape.
See the files area of this group for a writeup that Travis posted
on how to run the diagnostics.

One thing you might want to consider is the sellers track record
and the availability of other units should you get a lemon. Test
Equipment Surplus gets about 30 of these a month and has been very
good in supporting problems. Most of the people on this group
bought from him and I've heard nothing but good things.
If your seller only has a single instrument and you have problems
your options are limited.

One thing to watch out for is the power capability, most of the
8924c on ebay are the 3 watt version and upgrading them to 60
or 100 watts isn't cheap.

Good luck, I'm sure you'll love your 8924c ... it's amazing.

73's Skip WB6YMH

> - The lowest prices are usually from surplus dealers who haven´t
> tested the units in detail. Has anyone bought from one, what is the
> experience and how would you rate the risk of getting a broken one?
>
> Regards
> Martin
>

# 80. GPIB to USB Controllers on the HP8924

Yahoo group: hp8924
Date: 2009-07-21 20:48:22 UTC
From: Bob Murdock
Topic: 80  Message: 80

Does anyone know if the Prologix GPIB to USB Controller 6.0 works with RF Tools software?
RF Tools website (www.measurement.net.au) specifies the Agilent 82357B GPIB to USB Controller, which is extremely expensive.
The Prologix sells for $150.

Bob, WX2NJ

# 81. Re: GPIB to USB Controllers on the HP8924

Yahoo group: hp8924
Date: 2009-07-22 15:47:34 UTC
From: travis8303
Topic: 80  Message: 81

--- In hp8924@yahoogroups.com, "Bob Murdock" <wx2nj@...> wrote:
>
> Does anyone know if the Prologix GPIB to USB Controller 6.0 works with RF Tools software? RF Tools website (www.measurement.net.au) specifies the Agilent 82357B GPIB to USB Controller, which is extremely expensive.
> The Prologix sells for $150.
>
> Bob, WX2NJ
>

Also, if someone has a Prologix they could send me I would be willing to try it on my system and verify whether its compatibility or not.
I am running a functioning RF Tools with the 82357B and my laptop. I could try the Prologix on my desktop as a clean install with RF Tools as well.

Travis
AA9NV

# 82. Re: 8924C startup test and failure rate

Yahoo group: hp8924
Date: 2009-07-22 16:40:14 UTC
From: George Csahanin
Topic: 77  Message: 82

I agree with Skip. I have a 8935, bought from TES in Anaheim, and the one shipped first had a problem, he took it back, and sent another one, and paid shipping both ways by Fedex. I give him high points in customer service. Looked long and hard at 8924, but 8935 seemed smaller, and no CRT is a big plus.

GeorgeC W2DB/5

--- In hp8924@yahoogroups.com, "wb6ymh" <freebsdfan@...> wrote:
>
> --- In hp8924@yahoogroups.com, "cruizzer77" <atlantis7@> wrote:
> >
> > Hi
> >
> > I don´t have a 8924C yet, but it would probably be the only service
> > monitor I could afford as a replacement for my broken down Stabilock.
> > Probably somebody can answer a few questions:
> >
> > - Does the 8924C have a startup self-test which will tell the user
> > unmistakable if something is wrong?
>
> There is an automatic self test that runs on power up, but there are
> also extensive tests you can run that require external cables to
> connect outputs to inputs. If the automatic self test passes that's
> good but not a 100% indication of complete health. I live within
> driving distance of one of the main sources (Test Equipment surplus
> in Anaheim) and he allowed me to run the extended test on the unit
> I bought. If all of those tests run you know you're in good shape.
> See the files area of this group for a writeup that Travis posted
> on how to run the diagnostics.
>
> One thing you might want to consider is the sellers track record
> and the availability of other units should you get a lemon. Test
> Equipment Surplus gets about 30 of these a month and has been very
> good in supporting problems. Most of the people on this group
> bought from him and I've heard nothing but good things.
> If your seller only has a single instrument and you have problems
> your options are limited.
>
> One thing to watch out for is the power capability, most of the
> 8924c on ebay are the 3 watt version and upgrading them to 60
> or 100 watts isn't cheap.
>
> Good luck, I'm sure you'll love your 8924c ... it's amazing.
>
> 73's Skip WB6YMH

>
> > - The lowest prices are usually from surplus dealers who haven´t
> > tested the units in detail. Has anyone bought from one, what is the
> > experience and how would you rate the risk of getting a broken one?
> >
> > Regards
> > Martin
> >
>

# 83. Re: 8924C startup test and failure rate

Yahoo group: hp8924
Date: 2009-07-23 12:48:50 UTC
From: cruizzer77
Topic: 77  Message: 83

Thanks for your comments folks.

The 8935 seems to be a fine unit as well, I even think that all of these have 75W input power. I think I'd like it but it's much rarer and often more expensive as well. Seems to be a bit smaller and 5kg lighter indeed. The 8924C is said to do everything a 8920B does, does this apply to the 8935 as well?

Living in Europe where hardly any HP service monitors are to be found the only possibility would be to buy in the US or Hong Kong, but then the shipping cost is so high that even TES would pretty likely not pay return shipping and paying myself would not be an option either.

Anyway, the prices asked by Amtronix and TES are sure a good deal but still too high for my purse. You see I'd be on a really tight budget.

Therefore it is bad news that the self tests have to be run manually, because some sellers do power the units on and take a screenshot, but this doesn't mean much then.

Regards
Martin

--- In hp8924@yahoogroups.com, "George Csahanin" <george@...> wrote:
>
> I agree with Skip. I have a 8935, bought from TES in Anaheim, and the one shipped first had a problem, he took it back, and sent another one, and paid shipping both ways by Fedex. I give him high points in customer service. Looked long and hard at 8924, but 8935 seemed smaller, and no CRT is a big plus.
>
> GeorgeC W2DB/5
>
> --- In hp8924@yahoogroups.com, "wb6ymh" <freebsdfan@> wrote:
> >
> > --- In hp8924@yahoogroups.com, "cruizzer77" <atlantis7@> wrote:
> > >
> > > Hi
> > >
> > > I don´t have a 8924C yet, but it would probably be the only service
> > > monitor I could afford as a replacement for my broken down Stabilock.
> > > Probably somebody can answer a few questions:
> > >
> > > - Does the 8924C have a startup self-test which will tell the user
> > > unmistakable if something is wrong?
> >
> > There is an automatic self test that runs on power up, but there are
> > also extensive tests you can run that require external cables to
> > connect outputs to inputs. If the automatic self test passes that's

> > good but not a 100% indication of complete health. I live within
> > driving distance of one of the main sources (Test Equipment surplus
> > in Anaheim) and he allowed me to run the extended test on the unit
> > I bought. If all of those tests run you know you're in good shape.
> > See the files area of this group for a writeup that Travis posted
> > on how to run the diagnostics.
> >
> > One thing you might want to consider is the sellers track record
> > and the availability of other units should you get a lemon. Test
> > Equipment Surplus gets about 30 of these a month and has been very
> > good in supporting problems. Most of the people on this group
> > bought from him and I've heard nothing but good things.
> > If your seller only has a single instrument and you have problems
> > your options are limited.
> >
> > One thing to watch out for is the power capability, most of the
> > 8924c on ebay are the 3 watt version and upgrading them to 60
> > or 100 watts isn't cheap.
> >
> > Good luck, I'm sure you'll love your 8924c ... it's amazing.
> >
> > 73's Skip WB6YMH
> >
> > > - The lowest prices are usually from surplus dealers who haven´t
> > > tested the units in detail. Has anyone bought from one, what is the
> > > experience and how would you rate the risk of getting a broken one?
> > >
> > > Regards
> > > Martin
> > >
> >
>

# 84. startup troubles

Yahoo group: hp8924
Date: 2009-07-23 14:02:43 UTC
From: dave
Topic: 84  Message: 84

I have an hp 8924 that says it passes self-test.
and then sets thinking for awhile then says

""This instrument's internal program has reached an
unexpected and invalid state. Please record the 3 lines
of text below and fax them to Hewlett-Packard/Service
Engineering at 509-921-3700. In the US, you may call the
factory at 800-827-3840.

'$Header: CDMACallCntl.m,v 25.3 97/07/09 15:58:39 hmgr Exp $'
at line number 4517.
Condition: 0

You may continue testing by turning the instrument power off
and back on.""

and there it sets.

You can turn power off and on and it will continue, but i would like to
get rid of the problem. Having a error like this does not give much
confidence
in the behavior of the machine.

Any suggestions?

dave k7da

# 85. Re: startup troubles

Yahoo group: hp8924
Date: 2009-07-23 15:44:46 UTC
From: wb6ymh
Topic: 84  Message: 85

For a completely locked up instrument the factory suggested a
master reset. You might try that ... I haven't since I don't
any problems like that. See http://groups.yahoo.com/group/hp8924/message/46 for details.

At least the problem appears to be related to the CDMA features
which you are probably not using anyway.

73's Skip WB6YMH
--- In hp8924@yahoogroups.com, dave <oldbeeman@...> wrote:
>
>
> I have an hp 8924 that says it passes self-test.
> and then sets thinking for awhile then says
>
>
> ""This instrument's internal program has reached an
> unexpected and invalid state. Please record the 3 lines
> of text below and fax them to Hewlett-Packard/Service
> Engineering at 509-921-3700. In the US, you may call the
> factory at 800-827-3840.
>
> '$Header: CDMACallCntl.m,v 25.3 97/07/09 15:58:39 hmgr Exp $'
> at line number 4517.
> Condition: 0
>
> You may continue testing by turning the instrument power off
> and back on.""
>
> and there it sets.
>
> You can turn power off and on and it will continue, but i would like to
> get rid of the problem. Having a error like this does not give much
> confidence
> in the behavior of the machine.
>
> Any suggestions?
>
> dave k7da
>

# 86. Re: [hp8924] Re: startup troubles

Yahoo group: hp8924
Date: 2009-07-23 23:17:57 UTC
From: dave
Topic: 84  Message: 86

i had found this procedure in the maintenance manual and tried it but to
no avail
still get the problem. even when it says to power off and back on
sometimes it still get the error
at other times it works alright.

if this is a firmware problem is there any way to reload the firmware?
are there copies of the firmware floating around.

is the firmware on paper or a file somewhere that can be had. maybe
there is really a hardware
problem that the control program is seeing the self-test is not. is it
written is assembler or in ibasic
like some of the other stuff in the machine?

dave k7da

wb6ymh wrote:
> For a completely locked up instrument the factory suggested a
> master reset. You might try that ... I haven't since I don't
> any problems like that. See http://groups.yahoo.com/group/hp8924/message/46 for details.
>
> At least the problem appears to be related to the CDMA features
> which you are probably not using anyway.
>
> 73's Skip WB6YMH
> --- In hp8924@yahoogroups.com, dave <oldbeeman@...> wrote:
>
>> I have an hp 8924 that says it passes self-test.
>> and then sets thinking for awhile then says
>>
>>
>> ""This instrument's internal program has reached an
>> unexpected and invalid state. Please record the 3 lines
>> of text below and fax them to Hewlett-Packard/Service
>> Engineering at 509-921-3700. In the US, you may call the
>> factory at 800-827-3840.
>>
>> '$Header: CDMACallCntl.m,v 25.3 97/07/09 15:58:39 hmgr Exp $'
>> at line number 4517.
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>>
>> You may continue testing by turning the instrument power off
>> and back on.""
>>
>> and there it sets.

>>
>> You can turn power off and on and it will continue, but i would like to
>> get rid of the problem. Having a error like this does not give much
>> confidence
>> in the behavior of the machine.
>>
>> Any suggestions?
>>
>> dave k7da
>>
>>
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> ------------------------------------
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> Yahoo! Groups Links
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> ------------------------------------------------------------------------
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>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 8.5.375 / Virus Database: 270.13.25/2256 - Release Date: 07/23/09 06:02:00
>
>

# 87. Audio HI input issue

Yahoo group: hp8924
Date: 2009-08-10 16:24:54 UTC
From: radionova327
Topic: 87  Message: 87

Hello all,

My newly purchased 8924 fails one of the built in tests. I would rather not return the unit.

The AFDIAGS3, Audio Analyzer 1 External Path test with the following error:
External Audio Input Lower .388 Upper .474 Actual .011. 1 path had a failure in this test.
Failure code 2. Suspect Audio Analyzer 1 (medium) or cable (medium).

I tired several cables and tested the input using the DECODE and
SCOPE screens and the high side input does not work.

I replaced the A35 board with the same results. I tested continuity from the three audio connections in the front (audio out, audio high, audio low) and they test good back to the other end of the 10 inch or so jumper. Upon farther inspection, the center pin on the J3 connector on the main board where the audio hi was plugged into is bent to the side against the ground.

I have the following questions:

Type of connector this is?
Part number/source for it (J3 on main board)
Can it get to the bottom side to replace it without removing everything?
Is the connection from J3 to the A35 board direct or is there some stuff in the middle?
Anyone have a schematic for the unit, I have the assembly level PDF.

One more question. I also have a cal issue on the RF mixer. After running the CDMA_CAL, Receiver First Mixer I get this error, HP-IB Error: Cal Value out of range. Is this just a cal issue that would be fixed with a new cal or is this a unit issue?

Thank you,
Tom N8LBT

# 88. Re: [hp8924] Audio HI input issue

Yahoo group: hp8924
Date: 2009-08-12 10:55:32 UTC
From: Thomas Staley Jr.
Topic: 87  Message: 88

The connector is looking like a SMB, now the question is how to get to the back side of the main board. I can't get at it from the bottom of the unit.

radionova327 wrote:
> Hello all,
>
> My newly purchased 8924 fails one of the built in tests. I would rather not return the unit.
>
> The AFDIAGS3, Audio Analyzer 1 External Path test with the following error:
> External Audio Input Lower .388 Upper .474 Actual .011. 1 path had a failure in this test.
> Failure code 2. Suspect Audio Analyzer 1 (medium) or cable (medium).
>
> I tired several cables and tested the input using the DECODE and
> SCOPE screens and the high side input does not work.
>
> I replaced the A35 board with the same results. I tested continuity from the three audio connections in the front (audio out, audio high, audio low) and they test good back to the other end of the 10 inch or so jumper. Upon farther inspection, the center pin on the J3 connector on the main board where the audio hi was plugged into is bent to the side against the ground.
>
> I have the following questions:
>
> Type of connector this is?
> Part number/source for it (J3 on main board)
> Can it get to the bottom side to replace it without removing everything?
> Is the connection from J3 to the A35 board direct or is there some stuff in the middle?
> Anyone have a schematic for the unit, I have the assembly level PDF.
>
>
> One more question. I also have a cal issue on the RF mixer. After running the CDMA_CAL, Receiver First Mixer I get this error, HP-IB Error: Cal Value out of range. Is this just a cal issue that would be fixed with a new cal or is this a unit issue?
>
> Thank you,
> Tom N8LBT
>
>
>
>
> ------------------------------------
>

> Yahoo! Groups Links
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>
>
>
>

# 89. No Fan on power up

Yahoo group: hp8924
Date: 2009-08-18 00:21:15 UTC
From: zigs68
Topic: 89  Message: 89

Hi -

I have had an 8924c for a few months now and things were working great but just today I power up the unit and I hear no fans running when powering up like I used to. All self tests, etc are fine and the unit appears to work ok but with no fans I'm afraid to use it without the fans running - afraid things will burn up. Is the issue with the fan assembly which is a "replaceable" part in one of the PDF manuals I have? Where would you get an assembly and how crazy expensive is it?

# 90. Microphone and 60 watt mod

Yahoo group: hp8924
Date: 2009-08-23 18:37:29 UTC
From: wb6ymh
Topic: 90  Message: 90

Bruce, mail to your earthlink account is bouncing. Since you
are clearly reading this list and the information is possibly
of general interest I'm posting it here.

Skip

---
The only "microphone" I've used so far is the tip of my finger!
Since I got 60Hz hum I suspect it wants a crystal microphone. I'm
planning on using a Motorola DTMF mic with an adapter to provide
power and level adjustment... I doubt I get around to it anytime
soon. Finding the microphone connector was just a challenge.

Warning: You'll get a huge Mouser catalog every other month or so
by buying a $5 connector! Make me wonder how those guys stay in business!

BTW read the guy's auction on ebay again ... he's now allowing you to
do the install. He ships you a memory card and then refunds some
significant $$ when you return the card. The card is used to install
the calibration parameters for the attenuator, you only need it use
it once. It's still not cheap to upgrade, but it's a *lot* cheaper
and safer than shipping that monster around. I paid slightly over
$1k for mine, but it's a 100 watt version.

Skip

---
> Good Day Skip,
>
> Let us know what model microphone you end up using with that new connector.
>
> I purchased a very clean 8924C on eBay about 20 months ago for $800 shipped. The only thing missing was the Int to Ext clock jumper on the back, a couple of BNC elbow and a double female adaptors fixed that problem. It's been an outstanding service monitor and although it's heavy I have routinely lugged it to several repeater sites. For audio frequency response I run it in "duplex" mode, modulating the generator with noise and using the Baudline audio spectrum analyzer connected to the 8924 audio output BNC.
>
> I'll keep and eye out for that 60 watt mod on ebay, still pricey and I believe you have to ship the 8924 to them for the mod, that will cost more that than mod! The attenuators are not that difficult to find it's just the software mode we need to locate and we could then do our on mod.
>
> 73,
> Bruce WB6ARE

# 91. 82357B USB/GPIB Interface High-Speed USB 2.0

Yahoo group: hp8924
Date: 2009-08-25 21:27:19 UTC
From: ki4hzp
Topic: 91  Message: 91

Hi gents, I have to clean out the shack. Several of us use the 82357B USB/GPIB with our 8924c units.

I have a Brand New 82357B with the IO Libraries Suite 15.1 that we have held on to for a back up unit. The three of us find that our service monitors and the Agilent GPIBs are so stable that we decided that a back up unit was not needed.

If you would like one for your service monitor needs contact me off list for the cost.

I will be listing it on some auction sites in a week or so if no one here needs one.

Remember,
Keep Playing Radio

Sonny
Ki4HZP

# 92. 82357B USB/GPIB Interface High-Speed USB 2.0

Yahoo group: hp8924
Date: 2009-08-29 02:03:41 UTC
From: radionova327
Topic: 91  Message: 92

Sonny,

I am interested in your 82357B. What are you looking to get for it? I am pretty new to the 8924C but it is a pretty amazing unit.

Thank you,
Tom N8LBT

# 93. Re: [hp8924] 82357B USB/GPIB Interface High-Speed USB 2.0

Yahoo group: hp8924
Date: 2009-08-29 12:51:21 UTC
From: Sonny
Topic: 91  Message: 93

Tom, N8LBT

In short, two of my radio buds and I decided to set up some 8924C units for ourselves about 10 months ago. We are using the RF tools package on all three units. As we set them up, we decided to make sure we had some back-up parts for the 8924C's and the extras we use with them.

The GPIB I have for sale is Factory new with the docs and IO Libraries Suite 15.1 CD. There is just no need to have a back up GPIB. We find the whole package extremely stable and very reliable. The sale price is not set in stone, it was determined by taking all four of the purchase prices of the 82357B's we have (They were all purchased at different $) and dividing by 4.

The price we need to get out of our (back-up) 82357B is $425.00, that way we all get good deals and you know on the front end you're not getting junk. I can ship it priority mail USPS to any of the lower 48. Tom, I would like to say that the RF tools and this GPIB made our 8924C's a tool most amateurs can only dream about.

The three of us use our 8924C's, a return loss bridge and the RF tools to take radio and all the peripherals to a first class level of operation. The service monitor alone has limitations on what is actually displayed on the screen in every mode. With the use of the RF tools and a PC interfaced with this 82357B (the only known GPIB that works without problems and is supported by RF tools) much more useful data is actually collected from the 8924C and displayed now on the PC screen for the ability of making the finite adjustments to all levels of radio service. If you like, your 8924C and you take the next step to interfacing it with a PC, your going to love it!

Call me at 321-288-7948 at your convenience / or I can call you; just send me a note with your number and a good time to call you so we can work out the details for the payment and part shipping.

Thanks for your note,

Sonny

Ki4HZP

On Fri, Aug 28, 2009 at 10:03 PM, radionova327 <tsusegroups@...>wrote:

> Sonny,
>
> I am interested in your 82357B. What are you looking to get for it? I am
> pretty new to the 8924C but it is a pretty amazing unit.
>

> Thank you,
> Tom N8LBT
>
>
>
> ---
>
> Yahoo! Groups Links
>
>
>
>

--
"The information transmitted is intended only for the person or entity to which it is addressed and may contain confidential, proprietary, and/or privileged material. Any review, retransmission, dissemination or other use of, or taking of any action in reliance upon, this information by persons or entities other than the intended recipient is prohibited. If you received this in error, please contact the sender and delete the material from all computers."

# 94. tx testing

Yahoo group: hp8924
Date: 2009-09-21 21:32:13 UTC
From: phrijjid
Topic: 94  Message: 94

so i sold my 1200s and started using my 8924c for "everything". i'm having trouble using it for tx testing. i really think my 8924c is broken. i have a 60 watt input version. i'm trying to tune up mastr exec ii exciters. best case was tuning a vhf hi exciter. i did see 199 milliwatts on the 8924c. i put the amp inline, a 60 watt deck, and connected the cables. the wattmeter shows very low output. it does 'vary' when adjusting the amp output pot but never gets into the "watt" range. it shows like .00XX watts. now, with a regular ham wattmeter and dummy load, same setup shows 61 watts.

is my input attenuator "package" busted?

thanks for any help.

chris
kb0wlf

# 95. RE: [hp8924] tx testing

Yahoo group: hp8924
Date: 2009-09-21 21:57:31 UTC
From: Chris Curtis
Topic: 94  Message: 95

So I went out and "checked" my work again.
Before PTT, I clicked the tx power zero.
Upon PTT the "wattmeter" on the 8924c reads 0.0000.
Really frustrating.

The spec analyzer shows a clean peak coming out the the ground noise, so that "works".
I get good freq error readout that does vary when I "trim" the icom.

Just no "power" display.

Harsh

Chris
Kb0wlf

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of phrijjid
Sent: Monday, September 21, 2009 4:32 PM
To: hp8924@yahoogroups.com
Subject: [hp8924] tx testing

so i sold my 1200s and started using my 8924c for "everything". i'm having trouble using it for tx testing. i really think my 8924c is broken. i have a 60 watt input version. i'm trying to tune up mastr exec ii exciters. best case was tuning a vhf hi exciter. i did see 199 milliwatts on the 8924c. i put the amp inline, a 60 watt deck, and connected the cables. the wattmeter shows very low output. it does 'vary' when adjusting the amp output pot but never gets into the "watt" range. it shows like .00XX watts. now, with a regular ham wattmeter and dummy load, same setup shows 61 watts.

is my input attenuator "package" busted?

thanks for any help.

chris
kb0wlf

# 96. Re: tx testing

Yahoo group: hp8924
Date: 2009-09-22 17:41:23 UTC
From: travis8303
Topic: 94  Message: 96

Hope this helps.

I did something similar with a low band unit.
Tuned the exiter, excellent, connected everything, nothing.

The exciter tunes to the service monitor, which is fine for tune up but not for power out of the PA.

Retune the last two or three exciter settings with the PA connected as it will operate normally and you may see the wattage out right up. I tuned mine for maximum out and left it.

Travis
AA9NV

--- In hp8924@...m, "phrijjid" <kb0wlf@...> wrote:
>
> so i sold my 1200s and started using my 8924c for "everything". i'm having trouble using it for tx testing. i really think my 8924c is broken. i have a 60 watt input version. i'm trying to tune up mastr exec ii exciters. best case was tuning a vhf hi exciter. i did see 199 milliwatts on the 8924c. i put the amp inline, a 60 watt deck, and connected the cables. the wattmeter shows very low output. it does 'vary' when adjusting the amp output pot but never gets into the "watt" range. it shows like .00XX watts. now, with a regular ham wattmeter and dummy load, same setup shows 61 watts.
>
> is my input attenuator "package" busted?
>
> thanks for any help.
>
> chris
> kb0wlf
>

# 97. Error Code 4594

Yahoo group: hp8924
Date: 2009-10-24 16:38:44 UTC
From: radioman762
Topic: 97  Message: 97

After not using it for a few months, I plugged in my 8924 today and turned it on.

I received an error code of "4594". Despite cycling the power a couple of times -- as the screen instructed -- I can't get beyond the same error message.

Has anyone encountered this? I don't know what the message means or what the solution is.

Many thanks for any info.

# 98. TDR option?

Yahoo group: hp8924
Date: 2009-12-05 10:59:50 UTC
From: vk3zqv
Topic: 98  Message: 98

Hi,
Does anyone have any info on how to setup the 8924C to do TDR tests on my coax runs?
I have seen it mentioned as an option in the manual and also RFTools includes it as one of there functions.
Unfortunately RFtools will not work with my Prologix adapter so I would like to know how HP originally did it.
Thanks
Michael VK3ZQV

# 99. Re: Error Code 4594 -- Update

Yahoo group: hp8924
Date: 2009-12-12 03:45:49 UTC
From: radioman762
Topic: 97  Message: 99

The problem seems to have fixed itself.

After I last tried it a few weeks ago, I happened to leave it plugged in.

Last night I decided to try it again. It passed the POST with no error message and seems to work normally.

# 100. need help using SA

Yahoo group: hp8924
Date: 2009-12-18 18:53:36 UTC
From: Paul Holm
Topic: 100  Message: 100

Hello,

I'm fairly new to using my instrument. I've experimented a bit with tuning some cavities but I am not mastering the subject. If someone could give me some pointers or even 'hold my hand' through this, I'd sure appreciate it.

I've got a 6-cavity BpBr duplexer that I am tuning at the moment. It has UHF connectors on it; two connectors per cavity. I have fabricated 1/2wl test cables out of RG-400 and have a 3dB pad connected to each cavity port. I can turn on the TG and see a trace and it responds to the pass tuning adjustment but I am not using the whole vertical extent of the screen.

I think I need help understanding how the generator level, reference level, and normalizing work together.

Thanks.

Paul - KC0HST

# 101. Re: power on issue

Yahoo group: hp8924
Date: 2010-01-03 20:41:12 UTC
From: tektoolz
Topic: 59  Message: 101

I guess he feels the information is to valuable to post. At least in lost repair revenue.

--- In hp8924@yahoogroups.com, "Camilo So" <socamilo@...> wrote:
>
> Hi Jeff,
> Why not post it here so every one will learn something from you, Thank you
>
> Camilo
>
>
> ----- Original Message -----
> From: metroemt_jeff
> To: hp8924@yahoogroups.com
> Sent: Tuesday, June 09, 2009 6:16 PM
> Subject: [hp8924] Re: power on issue
>
>
>
>
>
> You have a single commponent bad on one of the power boards inside the main power supply. Took me a bit to locate the defective part. Let me know if you are interested in having it repaired. You can email me outside of group for details.
>
> Jeff
>
> --- In hp8924@yahoogroups.com, "radionut500" <flinston@> wrote:
> >
> > --- In hp8924@yahoogroups.com, "John \(WB5NFC\)" <wb5nfc@> wrote:
> > >
> > > Hi Skip. Mine's been working like a champ since I got it - but I do leave it plugged in. I seem to remember someone telling me that they will take some time to start if they have been unplugged for an extended period. That's totally undocumented, fuzzy-memory data, so don't depend on it <g>.
> > >
> > > John / WB5NFC
> > >
> > >
> > >
> > >
> > > _____
> > > From: wb6ymh <freebsdfan@>
> > > To: hp8924@yahoogroups.com
> > > Sent: Sunday, June 7, 2009 2:23:59 PM
> > > Subject: [hp8924] power on issue

> > >
> > >
> > >
> > >
> > >
> > > I don't know if anyone else has had this problem or not, but it
> > > really scared me when I ran into it. If leave my 9824c unplugged for
> > > a while it will not turn back on when I plug it in, all I get is a
> > > clicking noise about once a second. Happily if I leave it plugged in
> > > (turned off) for a while (15 minutes or so) it'll come back to life.
> > >
> > > If I unplug it briefly there's no problem and if I leave it plugged in
> > > and turned off there's no problem either.
> > >
> > > I suspect this is not normal and at some point it's going to die
> > > and I'll have to deal with the real problem.
> > >
> > > I've measured the off power both after it's been on for a while and
> > > immediately after it's been unplugged for a while and it's 5 watts
> > > in both cases. It has been suggested that perhaps there was an
> > > oven or something that needed to warm up after an extended period
> > > of being unplugged.
> > >
> > > Has anyone else had this issued?
> > >
> > > 73's Skip WB6YMH
> > >
> >
> > I keep mine unplugged when it's not being used. Too many thunderstorms around here to risk having something sneak in over the power line. Don't hear any clicking when I start it up in this condition. Takes about 10 seconds for POST beep, then about another 35 or 40 for POWERON configuration as I have it set to come up.
> > One thing I have noticed is the power supply seems to run hot in mine.
> >
>

# 102. Re: [hp8924] Re: power on issue

Yahoo group: hp8924
Date: 2010-01-04 06:24:57 UTC
From: Frederick Bray
Topic: 59  Message: 102

tektoolz wrote:
> I guess he feels the information is to valuable to post. At least in lost repair revenue.
>
>
Actually, he did post it on June 12, 2009. The subject of the posting
was "As promised". That may make it a bit harder to find, but it is
there. In that posting, he describes the two capacitors that need to be
replaced, including their locations and values.

# 103. 8924c wattmeter reading double

Yahoo group: hp8924
Date: 2010-01-04 23:18:48 UTC
From: Don E. Wisdom
Topic: 103  Message: 103

Hi All,
I got a 8924c for myself recently and got the 60w pad for it installed. It is reading exactly double what the power out is. Anyone seen this before? I did install the new calibration data into it with the card that the vendor sent with the new pad..
Thanks
--Don

# 104. Re: [hp8924] 8924c wattmeter reading double

Yahoo group: hp8924
Date: 2010-01-05 11:19:24 UTC
From: zigs68@yahoo.com
Topic: 103  Message: 104

Did you happen to check if the reading was accurate before you installed the 60w pad and uploaded the cal data (tested with a handheld radio at say 1-2 watts and saw what you got)?  The 60 watt pad just provides more attenuation than the 3 watt pad - the heatsinks are the same as you may have seen (and the pads themselves look the same as well).  The "cal data" tells the unit that this much attenuation is being provided so the power reading is correctly displayed.

If you bought this pad/cal data on ebay then you should be able to contact the vendor (he is the only one selling this I believe but there may be others).  If it is the same person he was very helpful on the phone with checking things out and seeing what may be the issue.  I did not have this power double problem when I did the upgrade - my question was on how to upload the cal data with choosing what options on the upgrade screens, etc. so I did not wipe anything out.  The rest has worked fine for me (so far....)

---
From: Don E. Wisdom <donw@...>
To: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
Sent: Mon, January 4, 2010 6:18:48 PM
Subject: [hp8924] 8924c wattmeter reading double

Hi All,
I got a 8924c for myself recently and got the 60w pad for it installed. It is reading exactly double what the power out is. Anyone seen this before? I did install the new calibration data into it with the card that the vendor sent with the new pad..
Thanks
--Don

# 105. Re: power on issue

Yahoo group: hp8924
Date: 2010-01-05 15:25:22 UTC
From: Skip
Topic: 59  Message: 105

I know of at least one other PS that had the same problem and
replacing the caps as described fixed it. My power supply
on the other hand also had a bad FET. I had Jeff fix mine
and it's working perfectly now. Jeff's quote was very reasonable
and I'm happy with his service.

Advise: If you're going to take your power supply out for
repair go buy an electric screw driver and torx bits for it
if you don't already have one! It seems like you need to take
out a couple thousand screws! (I'm very proud of myself, I
only had one screw left over when I put it back together, grin).

73's Skip WB6YMH
--- In hp8924@yahoogroups.com, Frederick Bray <fwbray@...> wrote:
>
> tektoolz wrote:
> > I guess he feels the information is to valuable to post. At least in lost repair
revenue.
> >
> >
> Actually, he did post it on June 12, 2009. The subject of the posting
> was "As promised". That may make it a bit harder to find, but it is
> there. In that posting, he describes the two capacitors that need to be
> replaced, including their locations and values.
>

# 106. Preset button

Yahoo group: hp8924
Date: 2010-02-03 13:02:11 UTC
From: tektoolz
Topic: 106  Message: 106

Hey all, anyone know if the preset button can be programmed. Maybe with a base setup save. Just wondering if anyone tried it.

tt

# 107. RE: [hp8924] Preset button

Yahoo group: hp8924
Date: 2010-02-03 13:18:16 UTC
From: Chris Curtis
Topic: 106  Message: 107

I have "many" presets stored in/on my 8924c

The power on status is saved as "poweron" I believe.

I also have several other states saved as A1 or C1 etc etc

Chris

Kb0wlf

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of tektoolz
Sent: Wednesday, February 03, 2010 7:02 AM
To: hp8924@yahoogroups.com
Subject: [hp8924] Preset button

Hey all, anyone know if the preset button can be programmed. Maybe with a base setup save. Just wondering if anyone tried it.

tt

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.435 / Virus Database: 271.1.1/2638 - Release Date: 02/02/10 19:35:00

# 108. Re: Preset button

Yahoo group: hp8924
Date: 2010-02-03 13:44:57 UTC
From: tektoolz
Topic: 106  Message: 108

So do I, but my question was on the green preset button. I tried saving a base and poweron but the preset button still goes to the cdma
control screen. Guess it calls the setup from rom. By the way, if you try this backup your settings onto sram card as creating a base will wipe stored settings. Glad I read the manual ;)

--- In hp8924@yahoogroups.com, "Chris Curtis" <kb0wlf@...> wrote:
>
> I have "many" presets stored in/on my 8924c
>
>
>
> The power on status is saved as "poweron" I believe.
>
>
>
> I also have several other states saved as A1 or C1 etc etc
>
>
>
> Chris
>
> Kb0wlf
>
>
>
> From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of
> tektoolz
> Sent: Wednesday, February 03, 2010 7:02 AM
> To: hp8924@yahoogroups.com
> Subject: [hp8924] Preset button
>
>
>
>
>
> Hey all, anyone know if the preset button can be programmed. Maybe with a
> base setup save. Just wondering if anyone tried it.
>
> tt
>
>
>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com

```
> Version: 8.5.435 / Virus Database: 271.1.1/2638 - Release Date: 02/02/10
> 19:35:00
>
```

# 109. composite vidio outout

Yahoo group: hp8924
Date: 2010-02-19 14:11:31 UTC
From: wd0ekr
Topic: 109  Message: 109

Has anyone used this output, if so what were the results?

Thanks
Jim

# 110. Re: composite vidio outout

Yahoo group: hp8924
Date: 2010-02-19 14:53:22 UTC
From: Skip
Topic: 109  Message: 110

> Has anyone used this output, if so what were the results?

I plugged mine into my 55 inch TV in the living room just for the hell of it. The TV wasn't able to sync to the scan rate. You'll need a "multi-sync" monitor which was common when the 8924c was designed, but not so much theses day.

According to the manual: "A multi-sync monitor must be used to match the video sync rate of 19.2 kHz. Examples of this type of monitor include - Mitsubishi Diamond Scan, NEC 3D, Leading Edge CMC-141M, and Sony CPD-1302."

73's Skip WB6YMH

# 111. Printing with HP 8924C

Yahoo group: hp8924
Date: 2010-02-28 13:15:16 UTC
From: abrigno1
Topic: 111  Message: 111

What type of printers work with the HP8924C?? Most of the ones listed are older but I set up using the "Deskjet" listing and I tried a Deskjet 720 which is a later model Deskjet - without success. I have an older Laserjet 4P which works well on another computer but is super large and not too convenient. I have checked out the Deskjet 720 on another computer and it is working fine. I could try the Laserjet but thought some of you are surely printing using the printer port.

Is there any trick to printing that I am missing. I use the shift hold and then hit print and I get nothing. As many of you have pointed out the manual leaves a lot to be desired.

Tony WA4KHN

# 112. RE: [hp8924] Printing with HP 8924C

Yahoo group: hp8924
Date: 2010-02-28 16:22:02 UTC
From: Mike, KD7MG
Topic: 111  Message: 112

Hey Tony,

There was a time when HP made some "host based" (or sometimes called "Windows only") printers that won't work without some sort of a computer "host" driving them. This includes.

HP Deskjet 710C, HP Deskjet 712C, HP Deskjet 720C, HP Deskjet 722C, HP Deskjet 820Cxi, HP Deskjet 820Cse, HP Deskjet 1000 Series, HP Original Photosmart printer (Part #: C3804A), HP LaserJet 3100 products and HP Officejet PSC 500.

I can't say for certain what WILL work, but you will most likely have problems with any listed above.

Cheers,

Mike

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of abrigno1
Sent: Sunday, February 28, 2010 6:15 AM
To: hp8924@yahoogroups.com
Subject: [hp8924] Printing with HP 8924C

What type of printers work with the HP8924C?? Most of the ones listed are older but I set up using the "Deskjet" listing and I tried a Deskjet 720 which is a later model Deskjet - without success. I have an older Laserjet 4P which works well on another computer but is super large and not too convenient. I have checked out the Deskjet 720 on another computer and it is working fine. I could try the Laserjet but thought some of you are surely printing using the printer port.

Is there any trick to printing that I am missing. I use the shift hold and then hit print and I get nothing. As many of you have pointed out the manual leaves a lot to be desired.

Tony WA4KHN

# 113. Re: [hp8924] Printing with HP 8924C

Yahoo group: hp8924
Date: 2010-02-28 16:36:11 UTC
From: Frederick Bray
Topic: 111  Message: 113

Tony,

I don't know whether you have seen the free program that allows you to capture the 8924C screen on your PC and save it as a bitmap file?

http://www.amtronix.com/8920btsinfo.htm

That should allow you to print it with whatever printer you have. Not a direct printer connection, but it might give you the printout you need.

73,

Fred
W6WAW
> What type of printers work with the HP8924C?? Most of the ones listed are older but I set up using the "Deskjet" listing and I tried a Deskjet 720 which is a later model Deskjet - without success. I have an older Laserjet 4P which works well on another computer but is super large and not too convenient. I have checked out the Deskjet 720 on another computer and it is working fine. I could try the Laserjet but thought some of you are surely printing using the printer port.
>
> Is there any trick to printing that I am missing. I use the shift hold and then hit print and I get nothing. As many of you have pointed out the manual leaves a lot to be desired.
>
> Tony WA4KHN
>
>
>
> ---
>
> Yahoo! Groups Links
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# 114. Instruement Check Out

Yahoo group: hp8924
Date: 2010-02-28 16:41:25 UTC
From: abrigno1
Topic: 114  Message: 114

Checking out instrument and getting used to moving around menus etc. Like it so far but it is pretty daunting and manuals are large and not much help. Found help screens to be most help so far. making progress. I would like to hook up local printer to printer port and have previously posted message about what printers work best. I have tried a Deskjet 720C and it doesn't work on 8924C but it works fine on local PC.

My HP8924C;

Firmware A.08.02

Boot Loader A.02.02

I have ntoiced something I can't find in the manual

On start up I get a quick flash message that says "Cal file checksum incorrect. File reset to default values." My gut first guess is that I need to run some type of calibration utility. Any help would be appreciated.

Unit then goes through the start-up sequence and gives the message that all self tests pass. It then comes up and appears to work properly.

# 115. Re: [hp8924] Printing with HP 8924C

Yahoo group: hp8924
Date: 2010-02-28 17:30:55 UTC
From: Tony Brignole
Topic: 111  Message: 115

Wow, refreshed my memory. You are right about that one. I think I just ran that test.

I have an antique portable Deskjet 340. It's prettysimple and should work. I'll give it a try.

----- Original Message -----
From: Mike, KD7MG
To: hp8924@yahoogroups.com
Sent: Sunday, February 28, 2010 10:22 AM
Subject: RE: [hp8924] Printing with HP 8924C

Hey Tony,

There was a time when HP made some "host based" (or sometimes called "Windows only") printers that won't work without some sort of a computer "host" driving them. This includes.

HP Deskjet 710C, HP Deskjet 712C, HP Deskjet 720C, HP Deskjet 722C, HP Deskjet 820Cxi, HP Deskjet 820Cse, HP Deskjet 1000 Series, HP Original Photosmart printer (Part #: C3804A), HP LaserJet 3100 products and HP Officejet PSC 500.

I can't say for certain what WILL work, but you will most likely have problems with any listed above.

Cheers,

Mike

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of abrigno1
Sent: Sunday, February 28, 2010 6:15 AM
To: hp8924@yahoogroups.com
Subject: [hp8924] Printing with HP 8924C

What type of printers work with the HP8924C?? Most of the ones listed are older but I set up using the "Deskjet" listing and I tried a Deskjet 720 which is a later model Deskjet - without success. I have an older Laserjet 4P which works well on another computer but is super large and not too convenient. I have checked out the Deskjet 720 on another computer and it is working fine. I could try the Laserjet but thought some of you are surely printing using the printer port.

Is there any trick to printing that I am missing. I use the shift hold and then hit print and I get nothing. As many of you have pointed out the manual leaves a lot to be desired.

Tony WA4KHN

# 116. Re: [hp8924] Printing with HP 8924C

Yahoo group: hp8924
Date: 2010-02-28 17:35:47 UTC
From: Tony Brignole
Topic: 111  Message: 116

Thanks for the reply. I appreciat the insight and help. The Hp 8924C is new to me. I got it off EBay and so far am crazy about it.

Sure have seen the BTS utility and have downloaded it. I plan to try it out in future. I would like to have a dedicated printer in shop to just do routine things. It saves the hassle of using a separat computer. I can use the laptop and screen capture for stuff I want to email.

I presently have an HP 141T Analyzer/Tracking Generator and I have used my Cannon Elph 8 Meg digital with macro to photo screen. It does a remarkably good job and is quick and dirty. I could use that if needed.

----- Original Message -----
From: Frederick Bray
To: hp8924@yahoogroups.com
Sent: Sunday, February 28, 2010 10:36 AM
Subject: Re: [hp8924] Printing with HP 8924C

Tony,

I don't know whether you have seen the free program that allows you to
capture the 8924C screen on your PC and save it as a bitmap file?

http://www.amtronix.com/8920btsinfo.htm

That should allow you to print it with whatever printer you have. Not a
direct printer connection, but it might give you the printout you need.

73,

Fred
W6WAW
> What type of printers work with the HP8924C?? Most of the ones listed are older but I set up using the "Deskjet" listing and I tried a Deskjet 720 which is a later model Deskjet - without success. I have an older Laserjet 4P which works well on another computer but is super large and not too convenient. I have checked out the Deskjet 720 on another computer and it is working fine. I could try the Laserjet but thought some of you are surely printing using the printer port.
>
> Is there any trick to printing that I am missing. I use the shift hold and then hit print and I get nothing. As many of you have pointed out the manual leaves a lot to be desired.
>
> Tony WA4KHN
>
>
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> Yahoo! Groups Links
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# 117. Re: [hp8924] Printing with HP 8924C

Yahoo group: hp8924
Date: 2010-02-28 23:03:31 UTC
From: Tony Brignole
Topic: 111  Message: 117

Mike, thanks again for tip/reminder. Had old Thinkjet and tried it. It works but paper and ink cart are not good economicaly. Will look for old HP Deskjet 600 series.

I also have Deskjet 340 that I will try.
----- Original Message -----
From: Mike, KD7MG
To: hp8924@yahoogroups.com
Sent: Sunday, February 28, 2010 10:22 AM
Subject: RE: [hp8924] Printing with HP 8924C

Hey Tony,

There was a time when HP made some "host based" (or sometimes called "Windows only") printers that won't work without some sort of a computer "host" driving them. This includes.

HP Deskjet 710C, HP Deskjet 712C, HP Deskjet 720C, HP Deskjet 722C, HP Deskjet 820Cxi, HP Deskjet 820Cse, HP Deskjet 1000 Series, HP Original Photosmart printer (Part #: C3804A), HP LaserJet 3100 products and HP Officejet PSC 500.

I can't say for certain what WILL work, but you will most likely have problems with any listed above.

Cheers,

Mike

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of abrigno1
Sent: Sunday, February 28, 2010 6:15 AM
To: hp8924@yahoogroups.com
Subject: [hp8924] Printing with HP 8924C

What type of printers work with the HP8924C?? Most of the ones listed are older but I set up using the "Deskjet" listing and I tried a Deskjet 720 which is a later model Deskjet - without success. I have an older Laserjet 4P which works well on another computer but is super large and not too convenient. I have checked out the Deskjet 720 on another computer and it is working fine. I could try the Laserjet but thought some of you are surely printing using the printer port.

Is there any trick to printing that I am missing. I use the shift hold and then hit print and I get nothing. As many of you have pointed out the manual leaves a lot to be desired.

Tony WA4KHN

# 118. Re: Printing with HP 8924C

Yahoo group: hp8924
Date: 2010-03-01 13:15:40 UTC
From: George C
Topic: 111  Message: 118

I have mine married to a HP340, ink getting tough to find, so reload those myself.

GeorgeC

--- In hp8924@yahoogroups.com, "abrigno1" <abrigno@...> wrote:
>
> What type of printers work with the HP8924C?? Most of the ones listed are older but I set up using the "Deskjet" listing and I tried a Deskjet 720 which is a later model Deskjet - without success. I have an older Laserjet 4P which works well on another computer but is super large and not too convenient. I have checked out the Deskjet 720 on another computer and it is working fine. I could try the Laserjet but thought some of you are surely printing using the printer port.
>
> Is there any trick to printing that I am missing. I use the shift hold and then hit print and I get nothing. As many of you have pointed out the manual leaves a lot to be desired.
>
> Tony WA4KHN
>

# 119. Speaker Receive Audio Level

Yahoo group: hp8924
Date: 2010-03-02 04:07:53 UTC
From: RFI-EMI-GUY
Topic: 119  Message: 119

Can anyone comment on the "loudness" of the internal speaker when monitoring a +/- 5 KHz FM channel?

I Have an 8920B and it seems a bit wimpy like < 50 milliwatts of audio.

--
Joe Leikhim K4SAT
"The RFI-EMI-GUY"?

"Use only Genuine Interocitor Parts" Tom Servo ;-P

# 120. Re: Speaker Receive Audio Level

Yahoo group: hp8924
Date: 2010-03-02 15:02:44 UTC
From: Skip
Topic: 119  Message: 120

It's certainly not LOUD, but at near full volume it's not distorted and I can comfortably use it for a monitor receiver while wondering around in the shack. It's plenty loud enough to get above the sound of the fans and HDs of my plentifully assortment of boat anchor PCs. How many milliwatts, beats me.

73's Skip WB6YMH
--- In hp8924@yahoogroups.com, RFI-EMI-GUY <rhyolite@...> wrote:
>
> Can anyone comment on the "loudness" of the internal speaker when
> monitoring a +/- 5 KHz FM channel?
>
> I Have an 8920B and it seems a bit wimpy like < 50 milliwatts of audio.
>
> --
> Joe Leikhim K4SAT
> "The RFI-EMI-GUY"©
>
>
>
> "Use only Genuine Interocitor Parts" Tom Servo ;-P
>

# 121. Printing with HP 8924C

Yahoo group: hp8924
Date: 2010-03-02 23:02:58 UTC
From: abrigno1
Topic: 111  Message: 121

Thanks to all who commented. I have ended up using an HP 660C Deskjet and it is working great. Set it with no FF before and one after data in confiugure screen. Mike, reminded me that later Deskjets - 700 series and higher need Windows platform. Only drawack is size and Cartridge availability and cost (aftermarket at Office Max $30) Print out is little grainy but more than adequate and easy to use. Guess is 600 series and earlier should all work.

I also have the portable 340 and 320 and will probably try those in the future but not a high priority now.

Next project is to use the Screen capture routing on laptop.

# 122. 8924c Drivers

Yahoo group: hp8924
Date: 2010-03-15 04:41:09 UTC
From: kmcquillan
Topic: 122  Message: 122

Does anyone have the drivers for the 8924c?

Thanks
Kent

# 123. Re: 8924c Drivers

Yahoo group: hp8924
Date: 2010-03-15 15:17:44 UTC
From: Joel Koltner
Topic: 122  Message: 123

--- In hp8924@yahoogroups.com, "kmcquillan" <kmcquillan@...> wrote:
> Does anyone have the drivers for the 8924c?

What kind of drivers? If you need, e.g., instrument interfaces for LabView over GPIB (or most any software), those for an 8920 work -- although, truth be told, in many cases such LabView "drivers" as so bare-bones you're better off just sending/receiving GPIB commands directly.

The 8924C also has a pair of serial ports, and you can use one for, e.g., screen capture using a utility HP provided. See: http://www.amtronix.com/8920btsinfo.htm

---Joe

# 124. Re: 8924c Drivers

Yahoo group: hp8924
Date: 2010-03-18 03:28:30 UTC
From: kmcquillan
Topic: 122  Message: 124

Yes, I am looking for GPIB drivers. I have not been able to find 8924c or 8920. I have looked on Agilent's site. Do you have a link that points to them?

Thanks
Kent

--- In hp8924@yahoogroups.com, "Joel Koltner" <jkoltner@...> wrote:
>
> --- In hp8924@yahoogroups.com, "kmcquillan" <kmcquillan@> wrote:
> > Does anyone have the drivers for the 8924c?
>
> What kind of drivers? If you need, e.g., instrument interfaces for LabView over GPIB (or most any software), those for an 8920 work -- although, truth be told, in many cases such LabView "drivers" as so bare-bones you're better off just sending/receiving GPIB commands directly.
>
> The 8924C also has a pair of serial ports, and you can use one for, e.g., screen capture using a utility HP provided. See: http://www.amtronix.com/8920btsinfo.htm
>
> ---Joe
>

# 125. Video out

Yahoo group: hp8924
Date: 2010-03-24 14:11:58 UTC
From: Al Wolfe
Topic: 125  Message: 125

Is there a simple way to use the video output of the hp8924c to feed an external monitor? I hooked it to a composite monitor and saw nothing so suppose that the timing is perhaps somewhat unconventional.

Al, K9SI

# 126. Re: 8924c Drivers

Yahoo group: hp8924
Date: 2010-03-24 14:47:09 UTC
From: Joel Koltner
Topic: 122  Message: 126

--- In hp8924@yahoogroups.com, "kmcquillan" <kmcquillan@...> wrote
> Yes, I am looking for GPIB drivers. I have not been able to find 8924c or 8920. I have looked on Agilent's site. Do you have a link that points to them?

You'll probably have more luck on National Instrument's web site for LabView drivers... e.g., these for the 8920:
http://sine.ni.com/apps/utf8/niid_web_display.model_page?p_model_id=2042 (there might be others -- that's just the first one I found).

---Joel

# 127. Re: Video out

Yahoo group: hp8924
Date: 2010-03-29 22:51:17 UTC
From: dcflux
Topic: 125  Message: 127

You have to use a multi-sync capable monitor as the frequencies are different.

19.2kHz for the CRT vs. 15.734kHz used in NTSC.

--- In hp8924@yahoogroups.com, "Al Wolfe" <k9si@...> wrote:
>
> Is there a simple way to use the video output of the hp8924c to feed an
> external monitor? I hooked it to a composite monitor and saw nothing so
> suppose that the timing is perhaps somewhat unconventional.
>
> Al, K9SI
>

# 128. Re: power on issue

Yahoo group: hp8924
Date: 2010-03-31 13:02:07 UTC
From: tektoolz
Topic: 59  Message: 128

Well I turned on my 8924 last night and guess what? Click of death here also. Looks like I get to repair the ps this weekend if I can find the time.

# 129. Video Monitor

Yahoo group: hp8924
Date: 2010-04-04 23:07:25 UTC
From: abrigno1
Topic: 129  Message: 129

I have been trying to find a monitor for my 8924C. The mulitsync units I have found are fairly expensive.

Has anyone tried the converters that convert composite to VGA?? I cannot find any specifics as if they are fixed tuned to NTSC sync rates or have ability to handle the 19 KHz required. These units are readily available on Ebay in the $30-50 range and would be great if they could use the existing VGA LCD monitors.

# 130. Re: [hp8924] Video Monitor

Yahoo group: hp8924
Date: 2010-04-05 00:00:22 UTC
From: K6PNG
Topic: 129  Message: 130

A converter of the type you describe has been tried without success by another member of the list. If you decide to try please post your results.

Ray W. Retzlaff II

abrigno1 wrote:
> I have been trying to find a monitor for my 8924C. The mulitsync units I have found are fairly expensive.
>
> Has anyone tried the converters that convert composite to VGA?? I cannot find any specifics as if they are fixed tuned to NTSC sync rates or have ability to handle the 19 KHz required. These units are readily available on Ebay in the $30-50 range and would be great if they could use the existing VGA LCD monitors.
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> Yahoo! Groups Links
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# 131. Re: Video Monitor

Yahoo group: hp8924
Date: 2010-04-05 11:03:26 UTC
From: travis8303
Topic: 129  Message: 131

There are a number of us interested in external monitors.

I have emailed a number of the converter vendors and the response across the board so far has been "no". Mostly they explain the units are for the CATV 15 KHz frequency and won't operate higher like we need for the 8924C.

I have called and emailed many people about any type of solution for displaying the 19.2 KHz horizontal sync signal but so far, all dead ends.

Talked to a repair shop, it could be possible to swap out the video section of the service monitor but the expense and time would probably be prohibitive.

Does anyone live near or have access to a shop that might have security or medical monitors? Maybe they would let you take the HP on site and you could try a variety of monitors?

Does anyone know how to, or if it is even possible to, convert the composite video to RGB or another type of data that could be used?

Some of the Sony commerical monitors will do 15 to 30 KHz horizontal sync but it wants an RGB feed instead of the composite video. Composite only goes down to 22 KHz or such.

If anyone has any additional leads or thoughts as to how this might be approached, please post the information.

Would it be possible to build a video converter for the composite video? Or have someone build one?

Travis
AA9NV

--- In hp8924@yahoogroups.com, "abrigno1" <abrigno@...> wrote:
>
> I have been trying to find a monitor for my 8924C. The mulitsync units I have found are fairly expensive.
>
> Has anyone tried the converters that convert composite to VGA?? I cannot find any specifics as if they are fixed tuned to NTSC sync rates or have ability to handle the 19 KHz required. These units are readily available on Ebay in the $30-50 range and would be great if they could use the existing VGA LCD monitors.
>

# 132. Re: [hp8924] Re: Video Monitor

Yahoo group: hp8924
Date: 2010-04-05 11:56:04 UTC
From: Tony Brignole
Topic: 129  Message: 132

I have found a monitor that works at the local NPR TV station but it is big and expensive if I buy one.

I will keep trying to find some type of converter and will post any progress.

The station engineer at the NPR station is a 40 year + ham and very knowledgable. I have not had time to talk in detail with him about options. I am pretty good on general radio but not so much on the video end of it so I need to pick his brain. If I come up with anything I'll post it.

----- Original Message -----
From: travis8303
To: hp8924@yahoogroups.com
Sent: Monday, April 05, 2010 6:03 AM
Subject: [hp8924] Re: Video Monitor

There are a number of us interested in external monitors.

I have emailed a number of the converter vendors and the response across the board so far has been "no". Mostly they explain the units are for the CATV 15 KHz frequency and won't operate higher like we need for the 8924C.

I have called and emailed many people about any type of solution for displaying the 19.2 KHz horizontal sync signal but so far, all dead ends.

Talked to a repair shop, it could be possible to swap out the video section of the service monitor but the expense and time would probably be prohibitive.

Does anyone live near or have access to a shop that might have security or medical monitors? Maybe they would let you take the HP on site and you could try a variety of monitors?

Does anyone know how to, or if it is even possible to, convert the composite video to RGB or another type of data that could be used?

Some of the Sony commerical monitors will do 15 to 30 KHz horizontal sync but it wants an RGB feed instead of the composite video. Composite only goes down to 22 KHz or such.

If anyone has any additional leads or thoughts as to how this might be approached, please post the information.

Would it be possible to build a video converter for the composite video? Or have someone build one?

Travis
AA9NV

--- In hp8924@yahoogroups.com, "abrigno1" <abrigno@...> wrote:
>
> I have been trying to find a monitor for my 8924C. The mulitsync units I have found are fairly expensive.
>
> Has anyone tried the converters that convert composite to VGA?? I cannot find any specifics as if they are fixed tuned to NTSC sync rates or have ability to handle the 19 KHz required. These units are readily available on Ebay in the $30-50 range and would be great if they could use the existing VGA LCD monitors.
>

# 133. Re: Video Monitor

Yahoo group: hp8924
Date: 2010-04-06 14:00:28 UTC
From: Joel Koltner
Topic: 129  Message: 133

> Does anyone know how to, or if it is even possible to, convert the composite video to RGB or another type of data that could be used?

Here's an idea... the guys who keep "classic" arcade games around often have the same problem, wanting to use modern monitors with old arcade games that used various now-uncommon video formats and scan rates. There is a nichey but active market for converter boards for these guys... see, e.g., http://cgi.ebay.com/RGBS-CGA-EGA-YUV-TO-VGA-converter-1-output-arcade-game_W0QQitemZ250593765979

Although it doesn't specifically state "19kHz, composite video input," I'm willing to bet that little additional signal processing is required to "fake it" using the CGA/EGA input (e.g., you might need to add a sync separator circuit, I'm thinking) -- but at its core those boards really are a complete A to D converter, frame store, and then D to A converter with a standard VGA output wherein the input and output timing don't bear any resemblance whatsoever, which is what you want.

> If anyone has any additional leads or thoughts as to how this might be approached, please post the information.

I saw a web site not too long ago where someone actually went to the effort to pull the digital video data and timing signals off the PCBs internal to a spectrum analyzer, I think it was, digitizing it and then feeding it to an FPGA that was then connected to a PC so as to provide a means of reading data out of the device (since it apparently didn't have a regular GPIB interface or whatever). That's some really heavy-duty effort there!

---Joel

# 134. Re: Video Monitor

Yahoo group: hp8924
Date: 2010-04-30 21:08:51 UTC
From: WA9FVP
Topic: 129  Message: 134

Check out the composite converters on this web page.
I'm sure something will work.

http://www.pronto.com/shop/composite-converter

# 135. 8924, 3 watt to 100 watt conversion.

Yahoo group: hp8924
Date: 2010-04-30 21:53:50 UTC
From: WA9FVP
Topic: 135  Message: 135

You don't have to spend a fortune converting your 8924 to measure 100 watts. I purchased a 100 watt, 20 db power attenuator on Ebay for $25.00. Simply connect it to the RF In/Out port and change the RF level offset in the Configuration menu to "ON". Just below that is the setting for the offset. Changed it to -20db. If you want better accuracy measure the attenuator using the 8924 generator and an RF power meter. You can measure the exact attenuation including the cables. Enter that number as the offset. My attenuator and cables measured -20.2 db. The 8924 will compensate for the attenuation and when you apply 100 watts to the attenuator, it will read 100 watts. I uploaded a file showing a picture of my setup and a screen shot of the Configuration menu. Remember if you use your setup at a higher frequency, the attenuation may change. Use a different offset and save it using a new filename.

# 136. New file uploaded to hp8924

Yahoo group: hp8924
Date: 2010-05-01 03:44:48 UTC
From: hp8924@yahoogroups.com
Topic: 31  Message: 136

```
Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hp8924
group.

File : /bts_sw.zip
Uploaded by : willcoele@... <willcoele@...>
Description : Screen capture software for the 8924

You can access this file at the URL:
http://groups.yahoo.com/group/hp8924/files/bts_sw.zip

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/forms/general.htmlfiles

Regards,

willcoele@... <willcoele@...>
```

# 137. BTS Screen Capture Software

Yahoo group: hp8924
Date: 2010-05-01 15:12:57 UTC
From: abrigno1
Topic: 137  Message: 137

I installed the BTS software on my laptop and it works great. It works little different than the instructions on the Amatronix web site but figured it out pretty easy. I am using Compaq RS2176 with an AMD 1800 Mhz with Win XP SP3.

I was able to save screens to USB zip and easily incorporate them into a Power Point presentation.

Still messing around tryng to find composite to VGA adapter but it is lower priority as screen is good and screen capture and local print work great. (Old HP DeskJet 660C works great)

Bought Return Loss Bridge from Amatronix and it works great. Highly recommend it. Eagle is little better but cost ton more. For my ham work Amatronix bridge is super.

# 138. Re: 8924, 3 watt to 100 watt conversion.

Yahoo group: hp8924
Date: 2010-05-01 18:24:20 UTC
From: wb9oih
Topic: 135  Message: 138

I have done a similar thing here. I found a 300 watt, 30 db power attenuator on ebay ($75?)that is supposedly good to 3 ghz. So I can use the 200 milliwatt input to 200 watts. Seems to work fine.

I have not tried the offset function in the configuration menu as multiplying by 1000 is pretty simple. But it does seem like a great idea though.

Al, K9SI

--- In hp8924@yahoogroups.com, "WA9FVP" <willcoele@...> wrote:
>
> You don't have to spend a fortune converting your 8924 to measure 100 watts. I purchased a 100 watt, 20 db power attenuator on Ebay for $25.00. Simply connect it to the RF In/Out port and change the RF level offset in the Configuration menu to "ON". Just below that is the setting for the offset. Changed it to -20db. If you want better accuracy measure the attenuator using the 8924 generator and an RF power meter. You can measure the exact attenuation including the cables. Enter that number as the offset. My attenuator and cables measured -20.2 db. The 8924 will compensate for the attenuation and when you apply 100 watts to the attenuator, it will read 100 watts. I uploaded a file showing a picture of my setup and a screen shot of the Configuration menu. Remember if you use your setup at a higher frequency, the attenuation may change. Use a different offset and save it using a new filename.
>

# 139. Re: 8924, 3 watt to 100 watt conversion.

Yahoo group: hp8924
Date: 2010-05-01 23:33:28 UTC
From: WA9FVP
Topic: 135  Message: 139

A 20db attenuator connected to the RF IN/OUT port divides the power by 100. On the other hand, the generator output decreases by 20db. By adding the offset, to compensate for the loss, the 8924 software increases the generator level by 20db. The drawback is that the generator's maximum signal is limited. The maximum calibrated level on my 8924 is -30dbm. However it's not a problem while testing receivers, I never need more than 1000uv or -47dbm.

When you use a 30db attenuator, your loosing another 10db of signal level and that's getting close to -47dbm. A 10db, 100 watt attenuator on a 3 watt 8924 isn't enough because the power level at the attneuators out port is 10 watts. 20db of attenuation is the best choice.

--- In hp8924@yahoogroups.com, "wb9oih" <k9si@...> wrote:
>
>
> I have done a similar thing here. I found a 300 watt, 30 db power attenuator on ebay ($75?)that is supposedly good to 3 ghz. So I can use the 200 milliwatt input to 200 watts. Seems to work fine.
>
> I have not tried the offset function in the configuration menu as multiplying by 1000 is pretty simple. But it does seem like a great idea though.
>
> Al, K9SI
>

# 140. Re: BTS Screen Capture Software, a better way to print.

Yahoo group: hp8924
Date: 2010-05-01 23:44:11 UTC
From: WA9FVP
Topic: 137  Message: 140

I use the BTS software on a 2647 IBM Thinkpad that I purchased on Ebay. New laptops don't have serial ports and I didn't want a large investment for fear that a USB to serial adapter wouldn't work. I can print just fine over the wireless network to an HP 5150 printer connected to my desktop computer.

--- In hp8924@yahoogroups.com, "abrigno1" <abrigno@...> wrote:
>
> I installed the BTS software on my laptop and it works great. It works little different than the instructions on the Amatronix web site but figured it out pretty easy. I am using Compaq RS2176 with an AMD 1800 Mhz with Win XP SP3.
>
> I was able to save screens to USB zip and easily incorporate them into a Power Point presentation.
>
> Still messing around tryng to find composite to VGA adapter but it is lower priority as screen is good and screen capture and local print work great. (Old HP DeskJet 660C works great)
>
> Bought Return Loss Bridge from Amatronix and it works great. Highly recommend it. Eagle is little better but cost ton more. For my ham work Amatronix bridge is super.
>

# 141. Return loss for coax

Yahoo group: hp8924
Date: 2010-05-03 23:39:13 UTC
From: abrigno1
Topic: 141  Message: 141

Need some help from the guru's.

I am trying to measure the RL on an old piece of RG213 with PL259 on each end. I am doing this to help familiarize myself with the procedure and the 8924C. I am getting some results that I can't understand.

I am using the Amatronix RL bridge and the RF tools software. I run the RL program with a sweep from 100 to 500 MHz first with the bridge DUT open circuit. I them connect the 50 ft piece of coax and finish the run.

I am getting a return loss of around 3.0 Db at the 100 MHz end and about 13 dB at the 500 MHz end. This is totaly confusing me. If I do a run and terminate the coax with a professional dummy load on the second part of the run I get around 34 dB at the 100 MHz end and around 12 dB at the 500 Mhz end. This makes sense to me but seems high. When I do a straight sweep using the 8924C tracking generator without the bridge I get results that are a little higher than new cable and agree with a 30 year old piece of good condition foam coax.

I am missing something realy simple here. Any thoughts or ideas would be appreciated.

# 142. Re: [hp8924] Return loss for coax

Yahoo group: hp8924
Date: 2010-05-04 11:33:00 UTC
From: Tony Brignole
Topic: 141  Message: 142

Would still appreciateany comments but think I have it figured out. It was right before me and I couldn't see it.

You can leave off any comments about being a "dumb ass". I figured that out on my own.

I once spent about an hour trying to explain to one of my customers in France what the term "if it was a snake it would have bitten me" meant. He was having a terrible time grasping the meaning of the expression. Now I think I know how he felt.

----- Original Message -----
From: abrigno1
To: hp8924@yahoogroups.com
Sent: Monday, May 03, 2010 6:39 PM
Subject: [hp8924] Return loss for coax

Need some help from the guru's.

I am trying to measure the RL on an old piece of RG213 with PL259 on each end. I am doing this to help familiarize myself with the procedure and the 8924C. I am getting some results that I can't understand.

I am using the Amatronix RL bridge and the RF tools software. I run the RL program with a sweep from 100 to 500 MHz first with the bridge DUT open circuit. I them connect the 50 ft piece of coax and finish the run.

I am getting a return loss of around 3.0 Db at the 100 MHz end and about 13 dB at the 500 MHz end. This is totaly confusing me. If I do a run and terminate the coax with a professional dummy load on the second part of the run I get around 34 dB at the 100 MHz end and around 12 dB at the 500 Mhz end. This makes sense to me but seems high. When I do a straight sweep using the 8924C tracking generator without the bridge I get results that are a little higher than new cable and agree with a 30 year old piece of good condition foam coax.

I am missing something realy simple here. Any thoughts or ideas would be appreciated.

# 143. Re: Return loss for coax

Yahoo group: hp8924
Date: 2010-05-08 01:37:06 UTC
From: WA9FVP
Topic: 141  Message: 143

First you should check your test setup. Replace the coax with a 50 load. If the results are still bad, there's something wrong with the test setup. The RL Bridge normally has a terminated port and if the termination is bad it could be why you're seeing erroneous results.

--- In hp8924@yahoogroups.com, "Tony Brignole" <abrigno@...> wrote:
>
> Would still appreciateany comments but think I have it figured out. It was right before me and I couldn't see it.
>
> You can leave off any comments about being a "dumb ass". I figured that out on my own.
>
> I once spent about an hour trying to explain to one of my customers in France what the term "if it was a snake it would have bitten me" meant. He was having a terrible time grasping the meaning of the expression. Now I think I know how he felt.
>
>
>
> ----- Original Message -----
> From: abrigno1
> To: hp8924@...m
> Sent: Monday, May 03, 2010 6:39 PM
> Subject: [hp8924] Return loss for coax
>
>
>
> Need some help from the guru's.
>
> I am trying to measure the RL on an old piece of RG213 with PL259 on each end. I am doing this to help familiarize myself with the procedure and the 8924C. I am getting some results that I can't understand.
>
> I am using the Amatronix RL bridge and the RF tools software. I run the RL program with a sweep from 100 to 500 MHz first with the bridge DUT open circuit. I them connect the 50 ft piece of coax and finish the run.
>
> I am getting a return loss of around 3.0 Db at the 100 MHz end and about 13 dB at the 500 MHz end. This is totaly confusing me. If I do a run and terminate the coax with a professional dummy load on the second part of the run I get around 34 dB at the 100 MHz end and around 12 dB at the 500 Mhz end. This makes sense to me but seems high. When I do a straight sweep using the 8924C tracking generator without the bridge I get results that are a little higher than new cable and agree with a 30 year old piece of good condition foam coax.
>
> I am missing something realy simple here. Any thoughts or ideas would be appreciated.

>

# 144. display question

Yahoo group: hp8924
Date: 2010-05-10 12:59:28 UTC
From: wd0ekr
Topic: 144  Message: 144

Has anyone had the display intermittently become jittery and if so was it able to be corrected? I had the machine opened up to install the kit for higher transmitter power, all that was done to the display was unhooking the cables to allow the front panel to slide forward and reconnecting them, now the display gets the jitters which never happened before I messed with it

# 145. Re:display question

Yahoo group: hp8924
Date: 2010-05-10 15:59:04 UTC
From: Joe Leikhim
Topic: 144  Message: 145

I believe the display unit is similar to one used in ICOM R9000 receiver. Those have a problem I have seen where cold solder on an electrolytic capacitor in the deflection circuit will create this problem. Look for cold solder, especially with capacitors mounted vertically on board.

--
Joe Leikhim

Leikhim and Associates
Communications Consultants
Oviedo, Florida

www.Leikhim.com

JLeikhim@...

407-982-0446

# 146. Re: [hp8924] display question

Yahoo group: hp8924
Date: 2010-05-10 17:07:18 UTC
From: gerald bishop
Topic: 144  Message: 146

Hi-Not the answer to your question,but,I too would like to change the in-put power. Just what is installed and where ??? TKS ,Jerry W8KQ

--- On Mon, 5/10/10, wd0ekr <wd0ekr@...> wrote:

From: wd0ekr <wd0ekr@...>
Subject: [hp8924] display question
To: hp8924@yahoogroups.com
Date: Monday, May 10, 2010, 8:59 AM

Has anyone had the display intermittently become jittery and if so was it able to be corrected? I had the machine opened up to install the kit for higher transmitter power, all that was done to the display was unhooking the cables to allow the front panel to slide forward and reconnecting them, now the display gets the jitters which never happened before I messed with it

# 147. Re: [hp8924] display question

Yahoo group: hp8924
Date: 2010-05-10 18:00:03 UTC
From: Don E. Wisdom
Topic: 144  Message: 147

Jerry,
Talk with the user rftoys on ebay. I highly recommend him. I am a very satisfied customer of his.
Don

---
From: hp8924@yahoogroups.com <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com <hp8924@yahoogroups.com>
Sent: Mon May 10 11:07:18 2010
Subject: Re: [hp8924] display question

Hi-Not the answer to your question,but,I too would like to change the in-put power. Just what is installed and where ??? TKS ,Jerry W8KQ

--- On Mon, 5/10/10, wd0ekr <wd0ekr@msn.com> wrote:

From: wd0ekr <wd0ekr@msn.com>
Subject: [hp8924] display question
To: hp8924@yahoogroups.com
Date: Monday, May 10, 2010, 8:59 AM

Has anyone had the display intermittently become jittery and if so was it able to be corrected? I had the machine opened up to install the kit for higher transmitter power, all that was done to the display was unhooking the cables to allow the front panel to slide forward and reconnecting them, now the display gets the jitters which never happened before I messed with it

# 148. RE: [hp8924] display question

Yahoo group: hp8924
Date: 2010-05-10 23:36:29 UTC
From: James H Vernetti
Topic: 144  Message: 148

go to ebay and type in HP 8924c you will find several kits

To: hp8924@yahoogroups.com
From: orangetruck38@...
Date: Mon, 10 May 2010 10:07:18 -0700
Subject: Re: [hp8924] display question

Hi-Not the answer to your question,but,I too would like to change the in-put power. Just what is installed and where ??? TKS ,Jerry W8KQ

--- On Mon, 5/10/10, wd0ekr <wd0ekr@...> wrote:

From: wd0ekr <wd0ekr@...>
Subject: [hp8924] display question
To: hp8924@yahoogroups.com
Date: Monday, May 10, 2010, 8:59 AM

Has anyone had the display intermittently become jittery and if so was it able to be corrected? I had the machine opened up to install the kit for higher transmitter power, all that was done to the display was unhooking the cables to allow the front panel to slide forward and reconnecting them, now the display gets the jitters which never happened before I messed with it

# 149. power on issue

Yahoo group: hp8924
Date: 2010-05-11 03:58:58 UTC
From: tektoolz
Topic: 59  Message: 149

Well, I found some time to pull my 8924 power supply board and repair it and I took a photo of the board and labeled a few parts. I removed J3, J4 & J7 boards to remove and test the capacitors. I found C5, C10 and C11 to be defective. I also found a ring crack on R29 and re-soldered it. I did not show it in the picture as it is under a heat sink. It looks like a 5 watt resister and the board was discolored at its location. It looks like the board was reworked at one time as the previous tech did not clean the flux from his work. I uploaded the board photo and also a zipped copy to the files section. Hope this helps someone out.

C5 47uF 50V (on J3 board)
C6 33uF 25V (on J3 board)
C7 33uF 25V (on J7 board)
C8 33uF 25V (on J7 board)
C3 & C4 100uF 35V (on main board)
C10 1uF 50V (on main board)
C11 4.7uF 50V (on J4 board)
C16 100uF 35V (on J4 board)
C17 33uF 25V (on J4 board)

# 150. Re: power on issue

Yahoo group: hp8924
Date: 2010-05-12 02:37:52 UTC
From: rfiemiguy
Topic: 59  Message: 150

Is this same power supply as the 8920B?

--- In hp8924@yahoogroups.com, "tektoolz" <tektoolz@...> wrote:
>
>
>
>
>
>
> Well, I found some time to pull my 8924 power supply board and
> repair it and I took a photo of the board and labeled a few
> parts. I removed J3, J4 & J7 boards to remove and test the capacitors. I found C5, C10
and C11 to be defective. I also
> found a ring crack on R29 and re-soldered it. I did not show
> it in the picture as it is under a heat sink. It looks like a
> 5 watt resister and the board was discolored at its location.
> It looks like the board was reworked at one time as the previous
> tech did not clean the flux from his work. I uploaded the board
> photo and also a zipped copy to the files section. Hope this
> helps someone out.
>
> C5 47uF 50V (on J3 board)
> C6 33uF 25V (on J3 board)
> C7 33uF 25V (on J7 board)
> C8 33uF 25V (on J7 board)
> C3 & C4 100uF 35V (on main board)
> C10 1uF 50V (on main board)
> C11 4.7uF 50V (on J4 board)
> C16 100uF 35V (on J4 board)
> C17 33uF 25V (on J4 board)
>

# 151. Audio problem

Yahoo group: hp8924
Date: 2010-05-12 02:47:39 UTC
From: Al Wolfe
Topic: 151  Message: 151

Recently while attempting a SINAD measurement the #1 audio oscillator stopped. It got scratchy for a while and then quit altogether. Is this a common problem? I have not tried any remedies yet like reseating a card or anything. Any suggestions?

Thanks,
Al

# 152. Re: Audio problem

Yahoo group: hp8924
Date: 2010-05-14 23:08:46 UTC
From: WA9FVP
Topic: 151  Message: 152

Did you check the audio out jack? you could have a bad cable.

--- In hp8924@yahoogroups.com, "Al Wolfe" <k9si@...> wrote:
>
> Recently while attempting a SINAD measurement the #1 audio oscillator
> stopped. It got scratchy for a while and then quit altogether. Is this a
> common problem? I have not tried any remedies yet like reseating a card or
> anything. Any suggestions?
>
> Thanks,
> Al
>

# 153. Re:Audio problem

Yahoo group: hp8924
Date: 2010-05-18 20:11:51 UTC
From: Al Wolfe
Topic: 151  Message: 153

There is nothing at the audio output jack from #1 audio oscillator when it is switched there, but when I switch on #2 audio oscillator there is audio at the audio output jack when that is selected. #2 oscillator also modulates the test RF signal just fine. #1 audio oscillator seems dead.

I guess this is not a common problem.

Al

----- Original Message -----
> Re: Audio problem
> Posted by: "WA9FVP" willcoele@... willcoele@...
> Date: Fri May 14, 2010 4:09 pm ((PDT))
>
> Did you check the audio out jack? you could have a bad cable.
>
>
>
> --- In hp8924@yahoogroups.com, "Al Wolfe" <k9si@...> wrote:
>>
>> Recently while attempting a SINAD measurement the #1 audio oscillator
>> stopped. It got scratchy for a while and then quit altogether. Is this a
>> common problem? I have not tried any remedies yet like reseating a card
>> or
>> anything. Any suggestions?
>>
>> Thanks,
>> Al
>>

# 154. Calibration - Who, and How Much?

Yahoo group: hp8924
Date: 2010-05-21 01:01:29 UTC
From: Josh
Topic: 154  Message: 154

I'm a ham operator who recently purchased an 8924c (in fact, it hasnt arrived yet). Who are you guys using for calibration, and what have you been paying? Are you finding this is necessary? I'm not working in a lab here, I'm an amateur.

The first company I called said 'we dont do that unit'

Josh

# 155. Re:Calibration - Who, and How Much?

Yahoo group: hp8924
Date: 2010-05-21 15:10:28 UTC
From: Joe Leikhim
Topic: 154  Message: 155

I would be surprised if you can find anyone who does this at an affordable price.

Does it pass all self tests including the ones you invoke with internal software where you loop back audio and RF? Make sure you warm up over 15 minutes as recommended or expect minor failures.

You can _calibrate_ the frequency reference manually through an internal software routine, but the other calibrations require use of HPIB, an array of test equipment and a pricey $700 calibration software.

If you want to _verify_ its performance, you can check the freq reference versus WWV and you can check the RX deviation meter by offsetting a CW generator +/- the center frequency. (Use DC coupling on the detector/demod) The TX deviation generator you can verify with an external receiver and DC scope on its discriminator, using the CW offset method to calibrate the scope. (Or use the duplex mode to check against its own generator if you have verified it is deviating correctly). The power meter and RF generator verification will require that you have an external power source and receiver of which you have confidence of their performance.

I am hoping someone in the group will shake loose some calibration software or a method to edit calibration data.

--
Joe Leikhim

Leikhim and Associates
Communications Consultants
Oviedo, Florida

www.Leikhim.com

JLeikhim@...

407-982-0446

# 156. Re: [hp8924] Re:Calibration - Who, and How Much?

Yahoo group: hp8924
Date: 2010-05-21 23:00:46 UTC
From: Tony Brignole
Topic: 154  Message: 156

Rick Bowman at Amtronix will do it at very reasonable price for hams. Only problem is shipping and packing the heavy instruement to go to NJ/NY area. For specific info go to Amatronix and send note to Rick. He has been a great help to me and others.

The internal calibration routines are probably good enought for most things if it passes all self tests.

----- Original Message -----
From: Joe Leikhim
To: hp8924@yahoogroups.com
Sent: Friday, May 21, 2010 10:10 AM
Subject: [hp8924] Re:Calibration - Who, and How Much?

I would be surprised if you can find anyone who does this at an affordable price.

Does it pass all self tests including the ones you invoke with internal software where you loop back audio and RF? Make sure you warm up over 15 minutes as recommended or expect minor failures.

You can calibrate the frequency reference manually through an internal software routine, but the other calibrations require use of HPIB, an array of test equipment and a pricey $700 calibration software.

If you want to verify its performance, you can check the freq reference versus WWV and you can check the RX deviation meter by offsetting a CW generator +/- the center frequency. (Use DC coupling on the detector/demod) The TX deviation generator you can verify with an external receiver and DC scope on its discriminator, using the CW offset method to calibrate the scope. (Or use the duplex mode to check against its own generator if you have verified it is deviating correctly). The power meter and RF generator verification will require that you have an external power source and receiver of which you have confidence of their performance.

I am hoping someone in the group will shake loose some calibration software or a method to edit calibration data.

--
Joe Leikhim

Leikhim and Associates
Communications Consultants
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JLeikhim@...

407-982-0446

# 157. Re: Calibration - Who, and How Much?

Yahoo group: hp8924
Date: 2010-05-21 23:34:30 UTC
From: travis8303
Topic: 154  Message: 157

Call Rick at Amtronix.

He does great work, stands behind his work and provide excellent customer service.
Three of our units are almost 18 months post calibration and all of them still work well and seem to have maintained where he put them.

http://www.amtronix.com/

Travis
AA9NV

--- In hp8924@yahoogroups.com, "Josh" <josh.kittle@...> wrote:
>
> I'm a ham operator who recently purchased an 8924c (in fact, it hasnt arrived yet). Who are you guys using for calibration, and what have you been paying? Are you finding this is necessary? I'm not working in a lab here, I'm an amateur.
>
> The first company I called said 'we dont do that unit'
>
> Josh
>

# 158. Re:Audio problem

Yahoo group: hp8924
Date: 2010-05-22 19:27:00 UTC
From: tektoolz
Topic: 151  Message: 158

There is some information on the audio generators in the assembly level repair manual. The generators are on the A15 signaling board. Maybe re-seating the board will help.

--- In hp8924@yahoogroups.com, "Al Wolfe" <k9si@...> wrote:
>
> There is nothing at the audio output jack from #1 audio oscillator when
> it is switched there, but when I switch on #2 audio oscillator there is
> audio at the audio output jack when that is selected. #2 oscillator also
> modulates the test RF signal just fine. #1 audio oscillator seems dead.
>
> I guess this is not a common problem.
>
> Al
>
>
> ----- Original Message -----
> > Re: Audio problem
> > Posted by: "WA9FVP" willcoele@... willcoele@...
> > Date: Fri May 14, 2010 4:09 pm ((PDT))
> >
> > Did you check the audio out jack? you could have a bad cable.
> >
> >
> >
> > --- In hp8924@yahoogroups.com, "Al Wolfe" <k9si@> wrote:
> >>
> >> Recently while attempting a SINAD measurement the #1 audio oscillator
> >> stopped. It got scratchy for a while and then quit altogether. Is this a
> >> common problem? I have not tried any remedies yet like reseating a card
> >> or
> >> anything. Any suggestions?
> >>
> >> Thanks,
> >> Al
> >>
>

# 159. It's here, and passing self diagnostics

Yahoo group: hp8924
Date: 2010-05-25 17:18:28 UTC
From: Josh
Topic: 159  Message: 159

Yay, mine arrived today via fedex. Well packaged, and survived shipping well.

Question for the group - The auction photos on the unit I purchased showed a different version of software than what is on my unit. I'm running A.06.33 - does that matter, do I care, should i upgrade it, whats the process/risk ?

Josh

# 160. RE: [hp8924] It's here, and passing self diagnostics

Yahoo group: hp8924
Date: 2010-05-25 22:23:02 UTC
From: Mike, KD7MG
Topic: 159  Message: 160

Mine arrived yesterday with the A.08.04 firmware. Yes, it was very well packaged. The only problem I have with mine is it's going to take a LOT of work to get all the grunge cleaned off if it. Seriously, it looks like it has decades of smoke residue on it. My fingers turn black just handling it. [sigh]

Other than that, it (so far) checks out OK.

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Josh
Sent: Tuesday, May 25, 2010 11:18 AM
To: hp8924@yahoogroups.com
Subject: [hp8924] It's here, and passing self diagnostics

Yay, mine arrived today via fedex. Well packaged, and survived shipping well.

Question for the group - The auction photos on the unit I purchased showed a different version of software than what is on my unit. I'm running A.06.33 - does that matter, do I care, should i upgrade it, whats the process/risk ?

Josh

# 161. Re: [hp8924] It's here, and passing self diagnostics

Yahoo group: hp8924
Date: 2010-05-25 23:32:31 UTC
From: Josh Kittle
Topic: 159  Message: 161

Yes, Mine is grungy too. Even 409 didn't whip it - and that stuff cleans ANYTHING (speaking from years of experience cleaning nasty icky dirty computers)

Looks like I'm within .7kc of the other service monitor here on the bench - looks like a trip to Rick @ Amtronix is in order for sure... Especially since I don't know which test set is right (but when it comes back, I can calibrate the rest of my gear to it, hehe - at least THEN I'll trust my equipment (finally).

Josh

On Tue, May 25, 2010 at 6:23 PM, Mike, KD7MG <kd7mg@...> wrote:

>
>
> Mine arrived yesterday with the A.08.04 firmware. Yes, it was very well
> packaged. The only problem I have with mine is it’s going to take a LOT of
> work to get all the grunge cleaned off if it. Seriously, it looks like it
> has decades of smoke residue on it. My fingers turn black just handling it.
> [sigh]
>
>
>
> Other than that, it (so far) checks out OK.
>
>
>
> *From:* hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] *On Behalf
> Of *Josh
> *Sent:* Tuesday, May 25, 2010 11:18 AM
> *To:* hp8924@yahoogroups.com
> *Subject:* [hp8924] It's here, and passing self diagnostics
>
>
>
>
>
> Yay, mine arrived today via fedex. Well packaged, and survived shipping
> well.
>
> Question for the group - The auction photos on the unit I purchased showed
> a different version of software than what is on my unit. I'm running A.06.33
> - does that matter, do I care, should i upgrade it, whats the process/risk ?
>
> Josh

>
>
>

# 162. Re: [hp8924] It's here, and passing self diagnostics

Yahoo group: hp8924
Date: 2010-05-26 13:20:45 UTC
From: Tony Brignole
Topic: 159  Message: 162

Josh, not sure what accuracy you need but I would recommend that you run all the self calibration tests and then check it against some local standards to see just how close it is. I use the NOAA at 162.475 and the local NPR digital TV station to check. I am no more than about 100 cycles off the NPR station and They use a cesium ion standard so I can check with the station engineer (ham W4OQG) to see where they are vs. that.

Rick can/will do an excellent job but if you don't need super accuracy you can save yourself some bucks and hassle.

I am a ham and 100-200 cycles is fine for what I do.

Tony WA4KHN

----- Original Message -----
From: Josh Kittle
To: hp8924@yahoogroups.com
Sent: Tuesday, May 25, 2010 6:32 PM
Subject: Re: [hp8924] It's here, and passing self diagnostics

Yes, Mine is grungy too. Even 409 didn't whip it - and that stuff cleans ANYTHING (speaking from years of experience cleaning nasty icky dirty computers)

Looks like I'm within .7kc of the other service monitor here on the bench - looks like a trip to Rick @ Amtronix is in order for sure... Especially since I don't know which test set is right (but when it comes back, I can calibrate the rest of my gear to it, hehe - at least THEN I'll trust my equipment (finally).

Josh

On Tue, May 25, 2010 at 6:23 PM, Mike, KD7MG <kd7mg@...> wrote:

Mine arrived yesterday with the A.08.04 firmware. Yes, it was very well packaged. The only problem I have with mine is it’s going to take a LOT of work to get all the grunge cleaned off if it. Seriously, it looks like it has decades of smoke residue on it. My fingers turn black just handling it. [sigh]

Other than that, it (so far) checks out OK.

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Josh
Sent: Tuesday, May 25, 2010 11:18 AM
To: hp8924@yahoogroups.com
Subject: [hp8924] It's here, and passing self diagnostics

Yay, mine arrived today via fedex. Well packaged, and survived shipping well.

Question for the group - The auction photos on the unit I purchased showed a different version of software than what is on my unit. I'm running A.06.33 - does that matter, do I care, should i upgrade it, whats the process/risk ?

Josh

# 163. Re: [hp8924] It's here, and passing self diagnostics

Yahoo group: hp8924
Date: 2010-05-26 15:26:45 UTC
From: Frederick Bray
Topic: 159  Message: 163

If your main concern is frequency accuracy, another option is to use an external frequency standard such as a GPS disciplined oscillator. This is easier than it may sound as there is a coaxial jumper on the rear panel that can be removed to disconnect the output of the internal standard and to connect an external standard instead.
The cost of a Z3801A, Z3816A, or similar unit would be significantly offset by the calibration fee and the round-trip shipping for the 8924.

If you need the whole thing gone through, professional checkout and calibration is way to go. I found in checking my 8924 against my Z3801A that the internal frequency standard is very stable and accurate after warm-up.

# 164. Re: It's here, and passing self diagnostics

Yahoo group: hp8924
Date: 2010-05-26 15:29:57 UTC
From: Al Wolfe
Topic: 159  Message: 164

Josh,
One of the simple checks for frequency is to just dial up 10 mhz (or other accurately known signal) and hook an antenna to the antenna in port. Then push the transmitter test button and turn the attenuation down to where you get a reading. The diplay in the upper left shows how far your timebase is off. Mine pretty much says "0" most of the time for WWV when signals are good.

While this is probably not the ultimate test for accuracy, it's probably good enough for most ham use and is quite simple to do.

Al, K9SI

Re: It's here, and passing self diagnostics
Posted by: "Josh Kittle" josh.kittle@... joshkittle
Date: Tue May 25, 2010 5:29 pm ((PDT))

<snip>

Looks like I'm within .7kc of the other service monitor here on the bench - looks like a trip to Rick @ Amtronix is in order for sure... Especially since I don't know which test set is right (but when it comes back, I can calibrate the rest of my gear to it, hehe - at least THEN I'll trust my equipment (finally).

Josh

# 165. Re: It's here, and passing self diagnostics

Yahoo group: hp8924
Date: 2010-05-26 15:53:21 UTC
From: WA9FVP
Topic: 159  Message: 165

Josh,

Make sure that the timebase jumper is connected on the rear apron. If it's not there, you will get a time base error message.

# 166. Frequency Ranges Differences?

Yahoo group: hp8924
Date: 2010-05-27 12:54:13 UTC
From: Josh
Topic: 166  Message: 166

Why are some 8924c's marked '30-1000' while other are marked '.4-1000'?

Mine starts life at .4 - I'm just curious.

j

# 167. Re: Frequency Ranges Differences?

Yahoo group: hp8924
Date: 2010-05-27 15:08:23 UTC
From: Joel Koltner
Topic: 166  Message: 167

--- In hp8924@yahoogroups.com, "Josh" <josh.kittle@...> wrote:
> Why are some 8924c's marked '30-1000' while other are marked '.4-1000'?

HP made a change at some point from relay-switched attenuators to PIN diode (electronic) switches, and while the later is deemed more reliable over time, the low-end frequency response isn't as good (but deemed "good enough").

The blurb at the bottom of the page here has a more in-depth explanation:
http://www.amtronix.com/diff.htm

---Joel

# 168. Re: Frequency Ranges Differences?

Yahoo group: hp8924
Date: 2010-05-27 15:59:35 UTC
From: Al Wolfe
Topic: 166  Message: 168

Josh,
I believe that the level calibration and sensitivity are only accurate above 30 mhz. Anything you get below 30 mhz is a bonus.

Hook the output to the input and do the tracking gen thing. If you do a 50 mhz center freq with 100 mhz sweep you'll see the bottom drop off.

Still a very cool tool.

Al, K9SI

> Frequency Ranges Differences?
> Posted by: "Josh" josh.kittle@... joshkittle
> Date: Thu May 27, 2010 5:56 am ((PDT))
>
> Why are some 8924c's marked '30-1000' while other are marked '.4-1000'?
>
> Mine starts life at .4 - I'm just curious.
>
> j
>
>

# 169. RE: [hp8924] Re: Frequency Ranges Differences?

Yahoo group: hp8924
Date: 2010-05-27 18:23:04 UTC
From: Mike, KD7MG
Topic: 166  Message: 169

Can an 8924C with an electronic attenuator be retrofitted with an older style mechanical attenuator to extend the low freq range? (Assuming a person can find such a beast.) Is it the exact same attenuator as the 8920 opt 055?

Thanks,

Mike

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Joel Koltner
Sent: Thursday, May 27, 2010 9:08 AM
To: hp8924@yahoogroups.com
Subject: [hp8924] Re: Frequency Ranges Differences?

--- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com> , "Josh" <josh.kittle@...> wrote:
> Why are some 8924c's marked '30-1000' while other are marked '.4-1000'?

HP made a change at some point from relay-switched attenuators to PIN diode (electronic) switches, and while the later is deemed more reliable over time, the low-end frequency response isn't as good (but deemed "good enough").

The blurb at the bottom of the page here has a more in-depth explanation: http://www.amtronix.com/diff.htm

---Joel

# 170. Reading the 'span'

Yahoo group: hp8924
Date: 2010-05-28 03:41:21 UTC
From: Josh
Topic: 170  Message: 170

On the spec anaylyzer, I've been messing with tuning some filters, and I'm trying to learn how to read thins darn thing - when I'm setting the 'span' - say 50mhz (really wide, i know) - is that the entire screen width, or per grid div? Also - going up and down (db scale) - how many DB's is a grid div, and is that fixed or user adjustable?

Teach me :P lol

j

# 171. Re: [hp8924] Re: Frequency Ranges Differences?

Yahoo group: hp8924
Date: 2010-05-28 03:53:11 UTC
From: Josh Kittle
Topic: 166  Message: 171

This is not the case on mine. I set up the test you describe, and mine doesn't fall off until about 400kc, but you're right, it's very obvious on the spec analyzer when running the tracking gen.

So it sounds like I have an early unit, from the sound of things. Works for me - for the casual use it gets, I'll take it :)

This thing is getting cooler by the minute.

j

On Thu, May 27, 2010 at 11:59 AM, Al Wolfe <k9si@...> wrote:

>
>
> Josh,
> I believe that the level calibration and sensitivity are only accurate
> above 30 mhz. Anything you get below 30 mhz is a bonus.
>
> Hook the output to the input and do the tracking gen thing. If you do a
> 50 mhz center freq with 100 mhz sweep you'll see the bottom drop off.
>
> Still a very cool tool.
>
> Al, K9SI
>
> > Frequency Ranges Differences?
> > Posted by: "Josh" josh.kittle@... <josh.kittle%40gmail.com>joshkittle
> > Date: Thu May 27, 2010 5:56 am ((PDT))
>
> >
> > Why are some 8924c's marked '30-1000' while other are marked '.4-1000'?
> >
> > Mine starts life at .4 - I'm just curious.
> >
> > j
> >
> >
>
>
>

# 172. Re: [hp8924] Reading the 'span'

Yahoo group: hp8924
Date: 2010-05-28 04:19:31 UTC
From: Paul Holm
Topic: 170  Message: 172

Josh,

Here's what I've learned with mine. Somebody check me if I've gotten it wrong.

The 'Span' is for the whole width of the display. If your Span is 10Mhz, then each division is 1Mhz.

On the vertical scale, the divisions are always 10db each. The vertical scale always shows 80db total. The top line is the Reference Level. If your 'Ref Level' is set to 0db, then your vertical scale shows 0 db at the top and -80db at the bottom. If, for example, you'd like to see the bottom of a notch, then set your 'Ref Level' lower to say, -30db. Then your display will show -30db at the top and -110db at the bottom. I believe the noise floor of the SA is down at about -120db.

Paul

----- Original Message -----
From: "Josh"
Subject: [hp8924] Reading the 'span'

> On the spec anaylyzer, I've been messing with tuning some filters, and I'm
> trying to learn how to read thins darn thing - when I'm setting the
> 'span' - say 50mhz (really wide, i know) - is that the entire screen
> width, or per grid div? Also - going up and down (db scale) - how many
> DB's is a grid div, and is that fixed or user adjustable?
>
> Teach me :P lol
>

# 173. Re: Frequency Ranges Differences?

Yahoo group: hp8924
Date: 2010-05-28 15:28:46 UTC
From: Joe Leikhim
Topic: 166  Message: 173

Interesting comparison chart.

It is not clear whether the E6380A and E8285A will both do CTCSS and 1000 HZ test tone simultaneously. Apparently the both have 2
Variable Audio Tone Encoders which would imply that they could. Does anyone know for sure?

--
Joe Leikhim

Leikhim and Associates
Communications Consultants
Oviedo, Florida

www.Leikhim.com

JLeikhim@...

407-982-0446

# 174. Re: Frequency Ranges Differences?

Yahoo group: hp8924
Date: 2010-05-29 14:02:35 UTC
From: George C
Topic: 166  Message: 174

They have two tone generators. I can have PL tone and "other" tone up at same time, with independant level control.

GeorgeC
W2DB

--- In hp8924@yahoogroups.com, Joe Leikhim <rhyolite@...> wrote:
>
> Interesting comparison chart.
>
> It is not clear whether the E6380A and E8285A will both do CTCSS and 1000 HZ test tone simultaneously. Apparently the both have 2
> Variable Audio Tone Encoders which would imply that they could. Does anyone know for sure?
>
> --
> Joe Leikhim
>
> Leikhim and Associates
> Communications Consultants
> Oviedo, Florida
>
> www.Leikhim.com
>
> JLeikhim@...
>
> 407-982-0446
>

# 175. Re: Reading the 'span'

Yahoo group: hp8924
Date: 2010-05-30 20:42:25 UTC
From: wb9oih
Topic: 170  Message: 175

Paul,
10 db per division vertically is the normal default and probably the most useful scale factor, but 1 and 2 db per vertical division are selectable as well. Very handy when trying to wring the last bit of performance out of something, but PITA other times when trace is off scale and you can't find it. Been there, done that.

Al, K9SI

> On the vertical scale, the divisions are always 10db each. The vertical
> scale always shows 80db total. The top line is the Reference Level. If
> your 'Ref Level' is set to 0db, then your vertical scale shows 0 db at the
> top and -80db at the bottom. If, for example, you'd like to see the bottom
> of a notch, then set your 'Ref Level' lower to say, -30db. Then your
> display will show -30db at the top and -110db at the bottom. I believe the
> noise floor of the SA is down at about -120db.
>
> Paul

# 176. Firmware Upgrade

Yahoo group: hp8924
Date: 2010-05-31 03:41:14 UTC
From: WA9FVP
Topic: 176  Message: 176

I purchased my 8924C about a year ago only to find out that it had a Beta version of software, X.06.18. I recently purchased a firmware upgrade on Ebay, version A.06.33. I had about 20 setups that I stored in the internal memory and according the instructions, they would be erased by the upgrade. The instructions listed the steps to store the registers to the PCMCIA card. I have a 1 Mb Verbatim, PCMCIA card with ample space and I proceeded with the step by step instructions.

After doing about 5 setups, I decided to check the card by pressing the recall and selecting my setup. The 8924C locked up and an error message appeared on the screen instructing me to call HP tech support and give them the error code. I decided to scrub the process and go ahead with the firmware upgrade.

After the upgrade checked the analog functions and I didn't notice any changes. There were steps to re-calibrate the TX power, DC current and DCFM offset. I did that. I decided to check card again and try to recall one of my setups. This time it worked! If I would have copied all of my setups, I could have retrieved them from the card.

Lesson learned!

# 177. New file uploaded to hp8924

Yahoo group: hp8924
Date: 2010-05-31 03:58:49 UTC
From: hp8924@yahoogroups.com
Topic: 31  Message: 177

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hp8924
group.

File : /HP8924_Upgrade.jpg
Uploaded by : willcoele@... <willcoele@...>
Description : HP 8924C/E Firmware Upgrade Instructions

You can access this file at the URL:
http://groups.yahoo.com/group/hp8924/files/HP8924_Upgrade.jpg

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/forms/general.htmlfiles

Regards,

willcoele@... <willcoele@...>

# 178. 8924C shipping box

Yahoo group: hp8924
Date: 2010-06-11 20:41:53 UTC
From: mike_dot_groves
Topic: 178  Message: 178

Before I cut this shipping box up and toss the nice injection foam packing, does anyone want it? Great for the next time you need to send your 8924 off for repair or cal. Just pay shipping and it's yours.

Mike

# 179. Cable Fault Location (TDR)

Yahoo group: hp8924
Date: 2010-06-13 01:34:23 UTC
From: vk3zqv
Topic: 179  Message: 179

Hi,
I wish to use my unit for cable fault location and am wondering if anyone in the group has the HP 11807A option 100 test card for sale or knows how to program the HP 8920C to do this function.
Cheers
Michael VK3ZQV
vk3zqv@...

# 180. Saving registers to a card

Yahoo group: hp8924
Date: 2010-06-13 04:45:11 UTC
From: WA9FVP
Topic: 180  Message: 180

I have a verbatim 1MB PCMCIA SRAM card and I was saving registers to the card. The steps are very tedious and if you have 20 or 30 registers to save, it can take a long time. (see Below)

Select I/O config screen (SHIFT,PREV) Set the Save/Recall field to Internal.
Recall the internal register you want to preserve (press RECALL and select the register name).
Select I/O config screen (SHIFT,PREV) Set the Save/Recall field to Card.
Press the PREV key to restore the the screen to be saved.
Press SHIFT,SAVE, enter the file name (new or Original) with the knob, choose DONE with the knob.
To save additional registers, change the Save/Recall field back to Internal to access the next
saved register and repeat the process.

Does anyone know if there's a better way?

# 181. Re:Audio problem

Yahoo group: hp8924
Date: 2010-06-13 04:59:58 UTC
From: WA9FVP
Topic: 151  Message: 181

I don't have one but the problem could bad a bad op-amp. I had a problem my 8924C where the RF power measurement was dead. I removed the top cover on the RF casting and with the internal video monitor connected and off to the side, with no schematic, I was able to trouble shoot the problem. It was a bad op-amp in what I think was the power measurement circuit. I replaced it with a surface mounted TL084.

To this day, it still works. I'm sure the audio generator is a plug in module filled op-amps or even a DSP. Without extenders and schematics, it would be very difficult to fix.

--- In hp8924@yahoogroups.com, "tektoolz" <tektoolz@...> wrote:
>
>
>
>
> There is some information on the audio generators in the assembly level repair manual. The generators are on the A15 signaling board. Maybe re-seating the board will help.
>
> --- In hp8924@yahoogroups.com, "Al Wolfe" <k9si@> wrote:
> >
> > There is nothing at the audio output jack from #1 audio oscillator when
> > it is switched there, but when I switch on #2 audio oscillator there is
> > audio at the audio output jack when that is selected. #2 oscillator also
> > modulates the test RF signal just fine. #1 audio oscillator seems dead.

# 182. Cable fault locator (TDR)

Yahoo group: hp8924
Date: 2010-06-14 03:32:57 UTC
From: vk3zqv
Topic: 182  Message: 182

Hi,
After reading one of the posts here it looks like I actually need a 11807E opt 100 not a 11807A.
Can anyone help with where I might purchase one (at a reasonable price) or does anyone know how to manual program the HP8924C to do this function.

Michael VK3ZQV

# 183. RE: [hp8924] Cable fault locator (TDR)

Yahoo group: hp8924
Date: 2010-06-14 11:23:47 UTC
From: Chris Curtis
Topic: 182  Message: 183

Rick at Amtronix can sell you a pcmcia card with the RF tools "package" on it.

Distance to fault, etc etc.

Would be my first choice for certain.

Good luck

Kb0wlf

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of vk3zqv
Sent: Sunday, June 13, 2010 10:33 PM
To: hp8924@yahoogroups.com
Subject: [hp8924] Cable fault locator (TDR)

Hi,
After reading one of the posts here it looks like I actually need a 11807E opt 100 not a 11807A.
Can anyone help with where I might purchase one (at a reasonable price) or does anyone know how to manual program the HP8924C to do this function.

Michael VK3ZQV

No virus found in this incoming message.
Checked by AVG - www.avg.com
Version: 8.5.437 / Virus Database: 271.1.1/2931 - Release Date: 06/13/10 06:35:00

# 184. Re: [hp8924] Cable fault locator (TDR)

Yahoo group: hp8924
Date: 2010-06-14 13:44:17 UTC
From: Tony Brignole
Topic: 182  Message: 184

I bought the RF bridge and RF tools from Rick and Amatronix and they work super. The price is very reasonable. It does a great job on cable fault. Only issue is the 8924 is not very portable.

I have a Tektronix 1503 and I generally use if for cable fault as it is battery powered and I am familiar with it's settings.

We have several guys here in our ham club who have built TDRs from article in QST if you have good fast scope. They are cheap and easy to build if you have time for and want a project. You do need a pretty good scope to use for the display. I have worked with the home built units and they work great. I believer FARR circuits has the board and it only takes about 10-12 readily available parts.

----- Original Message -----
From: vk3zqv
To: hp8924@yahoogroups.com
Sent: Sunday, June 13, 2010 10:32 PM
Subject: [hp8924] Cable fault locator (TDR)

Hi,
After reading one of the posts here it looks like I actually need a 11807E opt 100 not a 11807A.
Can anyone help with where I might purchase one (at a reasonable price) or does anyone know how to manual program the HP8924C to do this function.

Michael VK3ZQV

# 185. Prologix GPIB - USB Controller

Yahoo group: hp8924
Date: 2010-07-07 22:44:40 UTC
From: WA9FVP
Topic: 185  Message: 185

Is anyone using a Prologix GPIB, USB controller? It's a buy it now on ebay for $150. I plan to use it with an older HP laptop and Visual Basic to control my 8924C. Before I buy it, I would like your opinion.

# 186. HP-8920B w/o an Output

Yahoo group: hp8924
Date: 2010-07-17 18:12:19 UTC
From: jje642001
Topic: 186  Message: 186

I have an HP8920B that receives fine, but does not have any RF output at either the duplex or RF connectors. On a spectrum analyzer I can see the noise floor go up when the RF is turned on at the 8920. But there is no carrier present even with the level set at 0 dBm.

Is there a known failure mode? Has anyone else had this issue?

Thanks
je64

# 187. Re: HP-8920B w/o an Output

Yahoo group: hp8924
Date: 2010-07-18 01:34:40 UTC
From: WA9FVP
Topic: 186  Message: 187

Did you try setting the generator to other frequencies?

Jack @ Willco Electronics

--- In hp8924@yahoogroups.com, "jje642001" <jje642001@...> wrote:
>
> I have an HP8920B that receives fine, but does not have any RF output at either the duplex or RF connectors. On a spectrum analyzer I can see the noise floor go up when the RF is turned on at the 8920. But there is no carrier present even with the level set at 0 dBm.
>
> Is there a known failure mode? Has anyone else had this issue?
>
> Thanks
> je64
>

# 188. Upgrade 8924C with the high power input

Yahoo group: hp8924
Date: 2010-07-28 16:42:30 UTC
From: Dickson
Topic: 188  Message: 188

Hi all,

The 8924C high power upgrade kit available in the market seems to be a bit high. I wonder if we could upgrade the high power input without the dedicated kit. Also, how to make the cal data so the system response to the new attenuator correctly.

Thanks and Regards,
Dickson Fu
VR2WHF

# 189. Upgrade 8924E to 8924C?

Yahoo group: hp8924
Date: 2010-07-28 18:15:35 UTC
From: wspx472
Topic: 189  Message: 189

There is someone on eBay advertising this upgrade. He says he'll do it for $150 plus $77.51 shipping. Has anyone had this done? I questioned him about the differences in front panel lettering and he said most don't have any problems using the added functions without the lettering being present. I have an "E" I bought for cheap mostly as an organ donor for my "C". Now, I'm thinking of converting the "E" and selling the "C".

# 190. Re: Upgrade 8924E to 8924C?

Yahoo group: hp8924
Date: 2010-07-29 13:59:53 UTC
From: radio0439
Topic: 189  Message: 190

I have'nt looked at ebay to see if it's the same guy but I bought a 60 watt kit off ebay a few months back. The kit consisted of a resistor block and a card with cal data. Installation of the block was fairly simple and the seller walked me through the cal upgrade on the phone. He wad a super nice and extremely knowledgeable guy. He even offered me a substantial core return via paypal after I sent the card back to him. The kit came with the high power sticker as well. I will try to look up the auction to see if it's the same seller that is on there now.

--- In hp8924@yahoogroups.com, "wspx472" <wpxs472@...> wrote:
>
> There is someone on eBay advertising this upgrade. He says he'll do it for $150 plus $77.51 shipping. Has anyone had this done? I questioned him about the differences in front panel lettering and he said most don't have any problems using the added functions without the lettering being present. I have an "E" I bought for cheap mostly as an organ donor for my "C". Now, I'm thinking of converting the "E" and selling the "C".
>

# 191. 8920B RAM card

Yahoo group: hp8924
Date: 2010-07-29 17:35:11 UTC
From: rfiemiguy
Topic: 191  Message: 191

How big capacity PCMCIA RAM card can the 8920B read? My 2MB SDRAM card battery wore out again and I would like to use a 5 MB HP flashdisk I have handy. Will it work?

# 192. Re: Upgrade 8924C with the high power input

Yahoo group: hp8924
Date: 2010-07-30 01:12:09 UTC
From: WA9FVP
Topic: 188  Message: 192

I uploaded a document showing exactly what you are looking for in the files section. I use a 100 watt, 20 db attenuator on my 3 watt 8924C.
You can enter the offset in the configuration menu. Just today I used it to measure a 200 watt Yaesu FT-1000D on 20 meters. By tweeking the offset, you can compensate for additional losses at 14MHz and measure the power accuratly.

--- In hp8924@yahoogroups.com, "Dickson" <dicksonfuhk@...> wrote:
>
> Hi all,
>
> The 8924C high power upgrade kit available in the market seems to be a bit high. I wonder if we could upgrade the high power input without the dedicated kit. Also, how to make the cal data so the system response to the new attenuator correctly.
>
> Thanks and Regards,
> Dickson Fu
> VR2WHF
>

# 193. Re: Upgrade 8924E to 8924C?

Yahoo group: hp8924
Date: 2010-07-30 01:28:55 UTC
From: WA9FVP
Topic: 189  Message: 193

I aquired two SRAM cards on Ebay with firmware rev. A.06.33. It's not the latest rev. but my 8924C would boot up with Beta firmware and for me, any revision higher was an upgrade. I'm wondering if you can just aquire 8924C firmware, would your "E" simply become a "C".

--- In hp8924@yahoogroups.com, "wspx472" <wpxs472@...> wrote:
>
> There is someone on eBay advertising this upgrade. He says he'll do it for $150 plus $77.51 shipping. Has anyone had this done? I questioned him about the differences in front panel lettering and he said most don't have any problems using the added functions without the lettering being present. I have an "E" I bought for cheap mostly as an organ donor for my "C". Now, I'm thinking of converting the "E" and selling the "C".
>

# 194. Re: 8920B RAM card

Yahoo group: hp8924
Date: 2010-07-30 04:46:43 UTC
From: Dickson
Topic: 191  Message: 194

Why not replacing the battery?

I think it is not SDRAM but actually SRAM. SDRAM requires a complicated onboard SDRAM controller to retain the data, but SRAM just keep feeding in the power and it keeps alive.

--- In hp8924@yahoogroups.com, "rfiemiguy" <rhyolite@...> wrote:
>
> How big capacity PCMCIA RAM card can the 8920B read? My 2MB SDRAM card battery wore out again and I would like to use a 5 MB HP flashdisk I have handy. Will it work?
>

# 195. Re: Upgrade 8924C with the high power input

Yahoo group: hp8924
Date: 2010-07-30 17:15:07 UTC
From: Dickson
Topic: 188  Message: 195

Hi,

Thanks for your reply.

I don't know if the original built-in 60 watt/100 watt RF input works differently.

Your external approach should affect both input and output level by 20dB, but i just wonder if the original built-in approach just affect the input level. It is best to widen the input level without reducing the output level.

Thanks and Regards,
Dickson Fu
VR2WHF

--- In hp8924@yahoogroups.com, "WA9FVP" <willcoele@...> wrote:
>
>
> I uploaded a document showing exactly what you are looking for in the files section. I use a 100 watt, 20 db attenuator on my 3 watt 8924C.
> You can enter the offset in the configuration menu. Just today I used it to measure a 200 watt Yaesu FT-1000D on 20 meters. By tweeking the offset, you can compensate for additional losses at 14MHz and measure the power accuratly.
>
> --- In hp8924@yahoogroups.com, "Dickson" <dicksonfuhk@> wrote:
> >
> > Hi all,
> >
> > The 8924C high power upgrade kit available in the market seems to be a bit high. I wonder if we could upgrade the high power input without the dedicated kit. Also, how to make the cal data so the system response to the new attenuator correctly.
> >
> > Thanks and Regards,
> > Dickson Fu
> > VR2WHF
> >
>

# 196. Re: Upgrade 8924C with the high power input

Yahoo group: hp8924
Date: 2010-08-01 05:17:11 UTC
From: WA9FVP
Topic: 188  Message: 196

It reduces the generator level by 20 db but that's OK. When testing receivers, I don't need levels greater than -20dbm. I would think the 100 or 60 watt conversion would suffer the same losses. If I need 0dbm, I just remove the attenuator and recall the "Zero Offset" setup. I could be wrong but don't think you can bypass the 60 or 100 watt conversion.

need
--- In hp8924@yahoogroups.com, "Dickson" <dicksonfuhk@...> wrote:
>
> Hi,
>
> Thanks for your reply.
>
> I don't know if the original built-in 60 watt/100 watt RF input works differently.
>
> Your external approach should affect both input and output level by 20dB, but i just wonder if the original built-in approach just affect the input level. It is best to widen the input level without reducing the output level.
>
> Thanks and Regards,
> Dickson Fu
> VR2WHF
>
> --- In hp8924@yahoogroups.com, "WA9FVP" <willcoele@> wrote:
> >
> >
> > I uploaded a document showing exactly what you are looking for in the files section. I use a 100 watt, 20 db attenuator on my 3 watt 8924C.
> > You can enter the offset in the configuration menu. Just today I used it to measure a 200 watt Yaesu FT-1000D on 20 meters. By tweeking the offset, you can compensate for additional losses at 14MHz and measure the power accuratly.
> >
> > --- In hp8924@yahoogroups.com, "Dickson" <dicksonfuhk@> wrote:
> > >
> > > Hi all,
> > >
> > > The 8924C high power upgrade kit available in the market seems to be a bit high. I wonder if we could upgrade the high power input without the dedicated kit. Also, how to make the cal data so the system response to the new attenuator correctly.
> > >
> > > Thanks and Regards,
> > > Dickson Fu
> > > VR2WHF
> > >
> >
>

# 197. 8924C intermittent power up problem.

Yahoo group: hp8924
Date: 2010-08-01 12:39:26 UTC
From: jayw_comark
Topic: 197  Message: 197

Hi all,

I have two 8924Cs that have an intermittent power up problem. (completely dead, no fan, nothing) It seems that when I take them apart to poke around, they will start working again. They'll stay working for days, but if left off for a week or more the problem returns. Hoping that this was a common problem with these and someone might know what the "fix" is.

Thanks.

Jay

# 198. Re:8924C intermittent power up problem.

Yahoo group: hp8924
Date: 2010-08-01 16:01:45 UTC
From: Jeff Mathia
Topic: 197  Message: 198

Bad caps in power supply.

Jeff

# 199. Measure return loss and cable fault with HP 8924C

Yahoo group: hp8924
Date: 2010-08-02 18:53:26 UTC
From: Dickson
Topic: 199  Message: 199

Hi all,

I just discovered an Australian company "Measurement Innovation Pty Ltd" has made a Windows PC based software for HP 892x series radio service monitor for measuring cable fault location and much more.

http://www.measurement.ashop.com.au/c/25306/1/rf-tools.html

Demo on YouTube
http://www.youtube.com/watch?v=MUJaFbR8JK4

I guess they made the PC software that communicates with the HP 892x via the GPIB. The screen looks better and presents more sophisticated features than what 11807 Opt 100 offered.

Looks like it is more expensive than the 11807 Opt 100 software that only runs on the machine, but I wonder I can develop my own application using LabView framework becase the HP 892x series GPIB command protocol has made available on the web.

Thanks and Regards,
Dickson Fu
VR2WHF

# 200. Re: [hp8924] Digest Number 98

Yahoo group: hp8924
Date: 2010-08-05 12:02:33 UTC
From: Jay Walling
Topic: 200  Message: 200

Hi Jeff,

Thanks. Poking around in the archives, I came across another post of yours:
http://groups.yahoo.com/group/hp8924/message/68

"Two electrolytic caps need to be replaced. The small one directly above the Green LED (1uf 50V) and on the second stand up baord adjacent to the green LED replace the 47uf 50V electrolytic. This is the one causing the supply not to turn on and click. I will get a photo and part location on the next one I work on. Be sure to apply heat sink compound to the heat sinks that attach to the top cover."

I found that the *second* board is actually 4.7uF, but the first board *is* 47uF. Since I wasn't sure which one to replace, I replaced all three. I am now going to leave them unplugged for a week or so and see if the problem returns. Curious that it takes so long before the failure comes back...

--- On Mon, 8/2/10, hp8924@yahoogroups.com <hp8924@yahoogroups.com> wrote:

From: hp8924@yahoogroups.com <hp8924@yahoogroups.com>
Subject: [hp8924] Digest Number 98
To: hp8924@yahoogroups.com
Date: Monday, August 2, 2010, 10:33 AM

There is 1 message in this issue.

Topics in this digest:

1a. 8924C intermittent power up problem.
    From: Jeff Mathia

Message
---
1a. 8924C intermittent power up problem.
    Posted by: "Jeff Mathia" jeff@... metroemt_jeff
    Date: Sun Aug 1, 2010 9:01 am ((PDT))

Bad caps in power supply.

Jeff

Messages in this topic (2)

---
Yahoo! Groups Links

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# 201. Agilent HP 82357A/B HPIB/USB converter

Yahoo group: hp8924
Date: 2010-08-05 15:01:31 UTC
From: Joe Leikhim
Topic: 201  Message: 201

Can anyone suggest sources for used or bargain priced Agilent HP
82357A/B HPIB/USB converters?

--
Joe Leikhim

Leikhim and Associates
Communications Consultants
Oviedo, Florida

www.Leikhim.com

JLeikhim@...

407-982-0446

# 202. Re: Measure return loss and cable fault with HP 8924C

Yahoo group: hp8924
Date: 2010-08-05 16:27:29 UTC
From: travis8303
Topic: 199  Message: 202

Outstanding software and it works great.
Customer service is one of the best.

More here on the RFT-1000 software:
http://aa9nv.r2i.net/HP8924C.htm

Travis
AA9NV

--- In hp8924@yahoogroups.com, "Dickson" <dicksonfuhk@...> wrote:
>
> Hi all,
>
> I just discovered an Australian company "Measurement Innovation Pty Ltd" has made a Windows PC based software for HP 892x series radio service monitor for measuring cable fault location and much more.
>
> http://www.measurement.ashop.com.au/c/25306/1/rf-tools.html
>
> Demo on YouTube
> http://www.youtube.com/watch?v=MUJaFbR8JK4
>
> I guess they made the PC software that communicates with the HP 892x via the GPIB. The screen looks better and presents more sophisticated features than what 11807 Opt 100 offered.
>
> Looks like it is more expensive than the 11807 Opt 100 software that only runs on the machine, but I wonder I can develop my own application using LabView framework becase the HP 892x series GPIB command protocol has made available on the web.
>
> Thanks and Regards,
> Dickson Fu
> VR2WHF
>

# 203. Re: Agilent HP 82357A/B HPIB/USB converter

Yahoo group: hp8924
Date: 2010-08-06 00:10:20 UTC
From: WA9FVP
Topic: 201  Message: 203

I'm working with the Prologix USB to GPIB adapter. You can Buy-It-Now on Ebay for $150.

I'm writing a Visual Basic program to control my 8924C but with the out door chores and the long days this summer, there isn't enough time to spend on the project. I hope to have it working this winter.

Porlogix's web site can be found at http://www.prologix.biz/

--- In hp8924@yahoogroups.com, Joe Leikhim <rhyolite@...> wrote:
>
> Can anyone suggest sources for used or bargain priced Agilent HP
> 82357A/B HPIB/USB converters?
>
> --
> Joe Leikhim
>
> Leikhim and Associates
> Communications Consultants
> Oviedo, Florida
>
> www.Leikhim.com
>
> JLeikhim@...
>
> 407-982-0446
>

# 204. Re: Agilent HP 82357A/B HPIB/USB converter

Yahoo group: hp8924
Date: 2010-08-06 17:39:49 UTC
From: rfiemiguy
Topic: 201 Message: 204

That is a pretty good deal. I have written them to ask if it will fully emulate the 82357A/B. I am interested in using with the RF Tools software by Measurement Innovation. They could not suggest a low cost alternative to the 82357A/B. My budget is somewhat restricted so hope it works.

--- In hp8924@yahoogroups.com, "WA9FVP" <willcoele@...> wrote:
>
>
>
>
> I'm working with the Prologix USB to GPIB adapter. You can Buy-It-Now on Ebay for $150.
>
> I'm writing a Visual Basic program to control my 8924C but with the out door chores and the long days this summer, there isn't enough time to spend on the project. I hope to have it working this winter.
>
> Porlogix's web site can be found at http://www.prologix.biz/
>
>
> --- In hp8924@yahoogroups.com, Joe Leikhim <rhyolite@> wrote:
> >
> > Can anyone suggest sources for used or bargain priced Agilent HP
> > 82357A/B HPIB/USB converters?
> >
> > --
> > Joe Leikhim
> >
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> > Communications Consultants
> > Oviedo, Florida
> >
> > www.Leikhim.com
> >
> > JLeikhim@
> >
> > 407-982-0446
> >
>

# 205. Re: Agilent HP 82357A/B HPIB/USB converter

Yahoo group: hp8924
Date: 2010-08-07 14:33:13 UTC
From: Joe Leikhim
Topic: 201  Message: 205

Well apparently it is not a drop in replacement per Prologic, as the software will have to be rewritten. I am looking at a commercial software package, no chance to modify. So I am still looking for a deal on the HP 82357A/B :-(

--
Joe Leikhim

Leikhim and Associates
Communications Consultants
Oviedo, Florida

www.Leikhim.com

JLeikhim@...

407-982-0446

# 206. re: 8924C intermittent power up problem

Yahoo group: hp8924
Date: 2010-08-13 10:10:14 UTC
From: Jay Walling
Topic: 206  Message: 206

Well, after a week both are still powering up, so I'm guessing that they are now fixed after replacing the three caps mentioned below.

Thanks again Jeff.

Jay.

Hi Jeff,

Thanks. Poking around in the archives, I came across another post of yours:
http://groups.yahoo.com/group/hp8924/message/68

"Two electrolytic caps need to be replaced. The small one directly above the Green LED (1uf 50V) and on the second stand up baord adjacent to the green LED replace the 47uf 50V electrolytic. This is the one causing the supply not to turn on and click. I will get a photo and part location on the next one I work on. Be sure to apply heat sink compound to the heat sinks that attach to the top cover."

I
found that the *second* board is actually 4.7uF, but the first board *is* 47uF. Since I wasn't sure which one to replace, I replaced all three. I am now going to leave them unplugged for a week or so and see if the problem returns. Curious that it takes so long before the failure comes back...

# 207. Component Level Information Packet

Yahoo group: hp8924
Date: 2010-08-14 16:42:38 UTC
From: MICHAEL SMITH
Topic: 207  Message: 207

Hi,

I am new to the group. I have scanned through the 200 and some messages, and do not see anything related to my question. I am looking for the Component Level Information Packet, basically the schematics and part list for fixing the individual modules. I just got a 8924c that has some issue on the Input circuit. As I scroll through the reference levels in the spectrum analyzer, it is not linear. I have compared the 8924c duplex output levels with a HP 8920 analyzer; it is liner and right where it should be. When I use a generated signal from the 8920 to the 8924, it does the same thing; the reference levels in the spectrum analyzer screen are not linear. I get 4 errors while do the RF self test, and it identifies the Input Assembly. I am assuming that someone stuck power into the antenna port. One of the errors is a +20 Attenuator, so from looking at the block diagrams and the 8920 Component Level Information, it seems like the U104 or U106 may be bad.

I would like to have the correct Component Level Information Packet, anyone know where to get it?

Thanks,

Mike / KB8WLW
145.410 MHz PL 110.9
224.480 MHz PL 141.3
442.225 MHz PL 131.8
442.450 MHz PL 131.8
927.6125 MHz PL 131.8
Echo Link Node # 146520
This is a KB8RST Sponsored System
www.kb8wlw.com
kb8wlw@...

# 208. Re: [hp8924] Component Level Information Packet

Yahoo group: hp8924
Date: 2010-08-14 16:54:42 UTC
From: Tony Brignole
Topic: 207  Message: 208

I found the service manual on the net. I am not sure it would be any help but I have it if you don't. It is several hundred pages.

If you need/want it contact me off list and I will mail it to you but I believe I downloaded it off the HP/Agilent web site.

----- Original Message -----
From: MICHAEL SMITH
To: hp8924@yahoogroups.com
Sent: Saturday, August 14, 2010 11:42 AM
Subject: [hp8924] Component Level Information Packet

Hi,

I am new to the group. I have scanned through the 200 and some messages, and do not see anything related to my question. I am looking for the Component Level Information Packet, basically the schematics and part list for fixing the individual modules. I just got a 8924c that has some issue on the Input circuit. As I scroll through the reference levels in the spectrum analyzer, it is not linear. I have compared the 8924c duplex output levels with a HP 8920 analyzer; it is liner and right where it should be. When I use a generated signal from the 8920 to the 8924, it does the same thing; the reference levels in the spectrum analyzer screen are not linear. I get 4 errors while do the RF self test, and it identifies the Input Assembly. I am assuming that someone stuck power into the antenna port. One of the errors is a +20 Attenuator, so from looking at the block diagrams and the 8920 Component Level Information, it seems like the U104 or U106 may be bad.

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Thanks,

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www.kb8wlw.com
kb8wlw@...

# 209. Re: [hp8924] Component Level Information Packet

Yahoo group: hp8924
Date: 2010-08-14 17:55:49 UTC
From: dave
Topic: 207  Message: 209

tony.
would include me in that sending or point me at the site so i might
download it also?

dave k7da

Tony Brignole wrote:
>
>
> I found the service manual on the net. I am not sure it would be any
> help but I have it if you don't. It is several hundred pages.
> If you need/want it contact me off list and I will mail it to you but
> I believe I downloaded it off the HP/Agilent web site.

# 210. Re: [hp8924] Component Level Information Packet

Yahoo group: hp8924
Date: 2010-08-14 19:07:45 UTC
From: Ralph S. Turk
Topic: 207  Message: 210

If you found it at the HP/A web site, please let us know its HP/A name number or what ever. Have you looked to see if it gives you component information?
Ralph, W7HSG
----- Original Message -----
From: "Tony Brignole" <abrigno@...>
To: hp8924@yahoogroups.com
Sent: Saturday, August 14, 2010 9:54:42 AM
Subject: Re: [hp8924] Component Level Information Packet

I found the service manual on the net. I am not sure it would be any help but I have it if you don't. It is several hundred pages.

If you need/want it contact me off list and I will mail it to you but I believe I downloaded it off the HP/Agilent web site.

----- Original Message -----
From: MICHAEL SMITH
To: hp8924@yahoogroups.com
Sent: Saturday, August 14, 2010 11:42 AM
Subject: [hp8924] Component Level Information Packet

Hi,

I am new to the group. I have scanned through the 200 and some messages, and do not see anything related to my question. I am looking for the Component Level Information Packet, basically the schematics and part list for fixing the individual modules. I just got a 8924c that has some issue on the Input circuit. As I scroll through the reference levels in the spectrum analyzer, it is not linear. I have compared the 8924c duplex output levels with a HP 8920 analyzer; it is liner and right where it should be. When I use a generated signal from the 8920 to the 8924, it does the same thing; the reference levels in the spectrum analyzer screen are not linear. I get 4 errors while do the RF self test, and it identifies the Input Assembly. I am assuming that someone stuck power into the antenna port. One of the errors is a +20 Attenuator, so from looking at the block diagrams and the 8920 Component Level Information, it seems like the U104 or U106 may be bad.

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Thanks,

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927.6125 MHz PL 131.8

Echo Link Node # 146520
This is a KB8RST Sponsored System
www.kb8wlw.com
kb8wlw@...

# 211. RE: [hp8924] Component Level Information Packet

Yahoo group: hp8924
Date: 2010-08-14 19:43:26 UTC
From: Mike, KD7MG
Topic: 207  Message: 211

The only one I know of is the <http://www.home.agilent.com/agilent/techSupport.jspx?pid=1000002362%3Aepsg%3Apro&pageMode=MN&t=80101.k.3&co=153817.i.4&cc=US&lc=eng&sm=g> 8924C/E Assembly Level Repair Manual from the Agilent site. It’s a 613 page PDF that has all kinds of info in it.

Cheers,

Mike

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Ralph S. Turk
Sent: Saturday, August 14, 2010 1:08 PM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Component Level Information Packet

If you found it at the HP/A web site, please let us know its HP/A name
number or what ever. Have you looked to see if it gives you component
information?
Ralph, W7HSG
----- Original Message -----
From: "Tony Brignole" <abrigno@...>
To: hp8924@yahoogroups.com
Sent: Saturday, August 14, 2010 9:54:42 AM
Subject: Re: [hp8924] Component Level Information Packet

I found the service manual on the net. I am not sure it would be any help but I have it if you don't. It is several hundred pages.

If you need/want it contact me off list and I will mail it to you but I believe I downloaded it off the HP/Agilent web site.

----- Original Message -----

From: MICHAEL SMITH <mailto:kb8wlw@...>

To: hp8924@yahoogroups.com

Sent: Saturday, August 14, 2010 11:42 AM

Subject: [hp8924] Component Level Information Packet

Hi,

I am new to the group. I have scanned through the 200 and some messages, and do not see anything related to my question. I am looking for the Component Level Information Packet, basically the schematics and part list for fixing the individual modules. I just got a 8924c that has some issue on the Input circuit. As I scroll through the reference levels in the spectrum analyzer, it is not linear. I have compared the 8924c duplex output levels with a HP 8920 analyzer; it is liner and right where it should be. When I use a generated

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Thanks,

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Echo Link Node # 146520
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www.kb8wlw.com
kb8wlw@... <mailto:kb8wlw%40cox.net>

# 212. Re: [hp8924] Component Level Information Packet

Yahoo group: hp8924
Date: 2010-08-14 19:52:44 UTC
From: MICHAEL SMITH
Topic: 207  Message: 212

I have checked the assembly level repair document and it only tells you what module to replace. It does not tell you anything about component level details.

Sent from my iPhone

Mike / KB8WLW

On Aug 14, 2010, at 3:07 PM, "Ralph S. Turk" <w7hsg@...> wrote:

> If you found it at the HP/A web site, please let us know its HP/A name
> number or what ever. Have you looked to see if it gives you component
> information?
> Ralph, W7HSG
> ----- Original Message -----
> From: "Tony Brignole" <abrigno@...>
> To: hp8924@yahoogroups.com
> Sent: Saturday, August 14, 2010 9:54:42 AM
> Subject: Re: [hp8924] Component Level Information Packet
>
>
> I found the service manual on the net. I am not sure it would be any help but I have it if you don't. It is several hundred pages.
>
> If you need/want it contact me off list and I will mail it to you but I believe I downloaded it off the HP/Agilent web site.
>
> ----- Original Message -----
> From: MICHAEL SMITH
> To: hp8924@yahoogroups.com
> Sent: Saturday, August 14, 2010 11:42 AM
> Subject: [hp8924] Component Level Information Packet
>
>
> Hi,
>
> I am new to the group. I have scanned through the 200 and some messages, and do not see anything related to my question. I am looking for the Component Level Information Packet, basically the schematics and part list for fixing the individual modules. I just got a 8924c that has some issue on the Input circuit. As I scroll through the reference levels in the spectrum analyzer, it is not linear. I have compared the 8924c duplex output levels with a HP 8920 analyzer; it is liner and right where it should be. When I use a generated signal from the 8920 to the 8924, it does the same thing; the reference levels in the spectrum analyzer screen are not linear. I get 4 errors while do the RF self test, and it identifies the Input Assembly. I am assuming that someone stuck power into the antenna port. One of the errors is a +20 Attenuator, so from looking at the block diagrams and the 8920 Component Level Information, it seems like the U104 or U106 may be bad.

>
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>
> Thanks,
>
> Mike / KB8WLW
> 145.410 MHz PL 110.9
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> Echo Link Node # 146520
> This is a KB8RST Sponsored System
> www.kb8wlw.com
> kb8wlw@...
>
>
>

# 213. Re: [hp8924] Component Level Information Packet

Yahoo group: hp8924
Date: 2010-08-15 01:25:28 UTC
From: dave
Topic: 207  Message: 213

tnx
dave

Mike, KD7MG wrote:
>
>
> The only one I know of is the **8924C/E Assembly Level Repair Manual*
> <http://www.home.agilent.com/agilent/techSupport.jspx?pid=1000002362%3Aepsg%3Apro&pageMode=MN&t=80101.k.3&co=153817.i.4&cc=US&lc=eng&sm=g>*
> from the Agilent site. It's a 613 page PDF that has all kinds of info
> in it.
>
> Cheers,
>
> Mike
>
> *From:* hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] *On
> Behalf Of *Ralph S. Turk
> *Sent:* Saturday, August 14, 2010 1:08 PM
> *To:* hp8924@yahoogroups.com
> *Subject:* Re: [hp8924] Component Level Information Packet
>
> If you found it at the HP/A web site, please let us know its HP/A name
> number or what ever. Have you looked to see if it gives you component
> information?
> Ralph, W7HSG
> ----- Original Message -----
> From: "Tony Brignole" <abrigno@...>
> To: hp8924@yahoogroups.com
> Sent: Saturday, August 14, 2010 9:54:42 AM
> Subject: Re: [hp8924] Component Level Information Packet
>
> I found the service manual on the net. I am not sure it would be any
> help but I have it if you don't. It is several hundred pages.
>
> If you need/want it contact me off list and I will mail it to you but
> I believe I downloaded it off the HP/Agilent web site.
>
> ----- Original Message -----
>
> *From:* MICHAEL SMITH <mailto:kb8wlw@...>
>
> *To:* hp8924@yahoogroups.com <mailto:hp8924@yahoogroups.com>
>
> *Sent:* Saturday, August 14, 2010 11:42 AM

>
> *Subject:* [hp8924] Component Level Information Packet
>
> Hi,
>
> I am new to the group. I have scanned through the 200 and some
> messages, and do not see anything related to my question. I am
> looking for the Component Level Information Packet, basically the
> schematics and part list for fixing the individual modules. I just
> got a 8924c that has some issue on the Input circuit. As I scroll
> through the reference levels in the spectrum analyzer, it is not
> linear. I have compared the 8924c duplex output levels with a HP
> 8920 analyzer; it is liner and right where it should be. When I
> use a generated signal from the 8920 to the 8924, it does the same
> thing; the reference levels in the spectrum analyzer screen are
> not linear. I get 4 errors while do the RF self test, and it
> identifies the Input Assembly. I am assuming that someone stuck
> power into the antenna port. One of the errors is a +20
> Attenuator, so from looking at the block diagrams and the 8920
> Component Level Information, it seems like the U104 or U106 may be
> bad.
>
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> Packet, anyone know where to get it?
>
> Thanks,
>
> Mike / KB8WLW
> 145.410 MHz PL 110.9
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> 927.6125 MHz PL 131.8
> Echo Link Node # 146520
> This is a KB8RST Sponsored System
> www.kb8wlw.com
> kb8wlw@... <mailto:kb8wlw%40cox.net>
>
>
>
>
>
>
>
> No virus found in this incoming message.
> Checked by AVG - www.avg.com
> Version: 9.0.851 / Virus Database: 271.1.1/3069 - Release Date: 08/13/10 11:34:00
>
>

# 214. Re: [hp8924] Component Level Information Packet

Yahoo group: hp8924
Date: 2010-08-15 02:22:54 UTC
From: Tony Brignole
Topic: 207  Message: 214

What I have is the
Assembly Level Repair
HP # 08924-90061
April 2000 Rev b
it is 613 pages

I think it came from the HP site so it is the same manaul. I am sure you can find it on the HP site or I or someone else could mail it or uplaod it. Since it is on the HP site I hate to take up disc space.

I have just skimmed throught it and not studied it so not sure exactly what is in it.

----- Original Message -----
From: Mike, KD7MG
To: hp8924@yahoogroups.com
Sent: Saturday, August 14, 2010 2:43 PM
Subject: RE: [hp8924] Component Level Information Packet

The only one I know of is the 8924C/E Assembly Level Repair Manual from the Agilent site. It’s a 613 page PDF that has all kinds of info in it.

Cheers,

Mike

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Ralph S. Turk
Sent: Saturday, August 14, 2010 1:08 PM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Component Level Information Packet

If you found it at the HP/A web site, please let us know its HP/A name
number or what ever. Have you looked to see if it gives you component
information?
Ralph, W7HSG
----- Original Message -----
From: "Tony Brignole" <abrigno@...>
To: hp8924@yahoogroups.com
Sent: Saturday, August 14, 2010 9:54:42 AM
Subject: Re: [hp8924] Component Level Information Packet

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If you need/want it contact me off list and I will mail it to you but I believe I downloaded it off the HP/Agilent web site.

----- Original Message -----

From: MICHAEL SMITH

To: hp8924@yahoogroups.com

Sent: Saturday, August 14, 2010 11:42 AM

Subject: [hp8924] Component Level Information Packet

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Thanks,

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442.225 MHz PL 131.8
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927.6125 MHz PL 131.8
Echo Link Node # 146520
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www.kb8wlw.com
kb8wlw@...

# 215. R29 value on power supply

Yahoo group: hp8924
Date: 2010-09-13 01:36:58 UTC
From: CW
Topic: 215  Message: 215

Dear. Gentlemen,

I bought used 8924C and found it need a time to powering up about 10~15min. It seemed bad capacitors on power supply. And I replaced few capacitors(C5, C10 & C11) on SMPS. Now I could resolve power on delay issue but I found R29 is discolored while I'm replacing capacitors because of too much heat. I couldn't read value on it. Does anyone advise me the value of R29?

Another problem is 1 min after power switch is pushed in upper side of CRT is wobbling for a while and display as normal. I think the CRT lights up late because of known reason. The CRT has stain on fluorescent material but working good once lights up. Does anyone has idea about this?

Any advise would be appreciated.

Thank you in advance.

# 216. RF Generator dead between 250 and 280MHz

Yahoo group: hp8924
Date: 2010-10-02 03:41:15 UTC
From: WA9FVP
Topic: 216  Message: 216

My 8924C developed a problem where there's dead spot between 255 and 280 MHz. I can see it in the spectrum analyzer when the tracking generator is on and there's no output in that range on the RF IN/OUT port or the Duplex port. There's a 250 to 500 MHz path where the 500MHz to 1GHz generator passes through a divide by 2, a modulator and a low pass filter on the A26 board. I'm sure the problem is on the A26 board. Has anyone experienced this?

# 217. Re:RF Generator dead between 250 and 280MHz

Yahoo group: hp8924
Date: 2010-10-02 16:21:00 UTC
From: Joe Leikhim
Topic: 216  Message: 217

I have noted that from a dead cold start; my 8920B will fail some of the manual RF diagnostic tests. However, the instructions for that test, recommend a 15 minute warm up time before running them, and so if I do this, the tests pass every time. if the tracking analyzer is tested in a loop test under those same cold start conditions, there will be a distinct notch in the vicinity of both 350 and 700 MHz until warm up. My analysis is that the VCO needs to be warmed up before it will lock properly at those frequencies. If as you suggest, there is a divide by two, then it is possible in your case that the VCO is unlocked from 500 to 560 MHz as well.

You might try to see if there is a VCO steering line voltage adjustment, usually a capacitor or inductor, to adjust.

--
Joe Leikhim

Leikhim and Associates
Communications Consultants
Oviedo, Florida

www.Leikhim.com

JLeikhim@...

407-982-0446

# 218. Re:RF Generator dead between 250 and 280MHz

Yahoo group: hp8924
Date: 2010-10-03 19:39:10 UTC
From: WA9FVP
Topic: 216  Message: 218

If that were the case, there should be two gaps. I only see one, where the VCO is connected to the divide by 2. According to the repair manual, the generator is a straight connection to the I/O unit between 500 and 1GHz. Even after a few hours of warm up it's the same.

--- In hp8924@yahoogroups.com, Joe Leikhim <rhyolite@...> wrote:
>
> I have noted that from a dead cold start; my 8920B will fail some of
> the manual RF diagnostic tests. However, the instructions for that test,
> recommend a 15 minute warm up time before running them, and so if I do
> this, the tests pass every time. if the tracking analyzer is tested in a
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> to 560 MHz as well.
>
> You might try to see if there is a VCO steering line voltage adjustment,
> usually a capacitor or inductor, to adjust.
>
> --
> Joe Leikhim
>
> Leikhim and Associates
> Communications Consultants
> Oviedo, Florida
>
> www.Leikhim.com
>
> JLeikhim@...
>
> 407-982-0446
>

# 219. Re: [hp8924] Re:RF Generator dead between 250 and 280MHz

Yahoo group: hp8924
Date: 2010-10-03 21:08:29 UTC
From: Ralph S. Turk
Topic: 216  Message: 219

What manual are you using for the 8924 and 8920. Is it available on CD. If so where?
Ralph, W7HSG
----- Original Message -----
From: "WA9FVP" <willcoele@...>
To: hp8924@yahoogroups.com
Sent: Sunday, October 3, 2010 12:39:10 PM
Subject: [hp8924] Re:RF Generator dead between 250 and 280MHz

If that were the case, there should be two gaps. I only see one, where the VCO is connected to the divide by 2. According to the repair manual, the generator is a straight connection to the I/O unit between 500 and 1GHz. Even after a few hours of warm up it's the same.

--- In hp8924@yahoogroups.com , Joe Leikhim <rhyolite@...> wrote:
>
> I have noted that from a dead cold start; my 8920B will fail some of
> the manual RF diagnostic tests. However, the instructions for that test,
> recommend a 15 minute warm up time before running them, and so if I do
> this, the tests pass every time. if the tracking analyzer is tested in a
> loop test under those same cold start conditions, there will be a
> distinct notch in the vicinity of both 350 and 700 MHz until warm up.
> My analysis is that the VCO needs to be warmed up before it will lock
> properly at those frequencies. If as you suggest, there is a divide by
> two, then it is possible in your case that the VCO is unlocked from 500
> to 560 MHz as well.
>
> You might try to see if there is a VCO steering line voltage adjustment,
> usually a capacitor or inductor, to adjust.
>
> --
> Joe Leikhim
>
> Leikhim and Associates
> Communications Consultants
> Oviedo, Florida
>
> www.Leikhim.com
>
> JLeikhim@...
>
> 407-982-0446
>

# 220. RE: [hp8924] Re:RF Generator dead between 250 and 280MHz

Yahoo group: hp8924
Date: 2010-10-04 01:32:44 UTC
From: Mike, KD7MG
Topic: 216  Message: 220

For the 8924C…

http://www.google.com/search?q=8924C+Repair+Manual

For the 8920B…
http://www.google.com/search?q=8920B+Repair+Manual

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Ralph S. Turk
Sent: Sunday, October 03, 2010 3:08 PM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Re:RF Generator dead between 250 and 280MHz

What manual are you using for the 8924 and 8920. Is it available on CD. If so where?
Ralph, W7HSG

# 221. Re:RF Generator dead between 250 and 280MHz ----SOLVED---

Yahoo group: hp8924
Date: 2010-10-04 22:57:47 UTC
From: WA9FVP
Topic: 216  Message: 221

On the A24 module (the RF Generator) there's an adjustment called "VCO BIAS" With the 8924C in spectrum analyzer mode, tracking generator on, I adjusted the "pot" counter clockwise. The gap narrowed. After about 5 turns on a 10 turn pot, the dead spot was gone. I'm not sure what the adjustment is for, it's not covered in the manual. I checked the RF generator frequency and level at several frequencies and nothing changed. I was able to complete the CDMA_CAL Routines with no errors (see page 123 in the repair manual.

# 222. Re:RF Generator dead between 250 and 280MHz ----SOLVED---

Yahoo group: hp8924
Date: 2010-10-06 00:01:29 UTC
From: Joe Leikhim
Topic: 216  Message: 222

Assuming you pass all other self tests, the power supply voltages are nominal. It sounds like you were successful in tuning out some minor component drift and are good to go.

--
Joe Leikhim

Leikhim and Associates
Communications Consultants
Oviedo, Florida

www.Leikhim.com

JLeikhim@...

407-982-0446

# 223. Using the Tracking Generator Offset

Yahoo group: hp8924
Date: 2010-11-20 18:11:33 UTC
From: WA9FVP
Topic: 223  Message: 223

I used my 8924C to adjust a PLL I.F. on a Yaesu FT-980. The adjustment requires a flat IF response using a sweep generator that sweeps beyond 5.3 and 5.8MHz.

There's a 38.0675 MHz reference oscillator that's mixed with 5.3 to 5.8 MHz to generate an IF frequency between 43.3675 and 43.8675 MHz.

Here's how I set up the 8924C.

Spectrum analyzer:

Controls/ RF In = Ant.
Center frequency = 43.6175
Ref Level = -10 dbm
Span = 7Khz

RF Generator:

Controls = Track
Offset Freq = -38.0675 (make sure it's a minus offset)
Amplitude = -10 dbm
Port/Sweep = Dupl. /Norm

I connected the duplex port on the 8924 to J1 on the PLL board (the VFO) input. I connected the antenna port to test point TP01 (the I.F. test point). The passband was displayed on the center of the screen and I was able to adjust the passband for a flat response.

The tracking generator sweep was between 5.19 and 5.9 MHZ and the spectrum display was between 43.2675 and 43.9675 MHz. I'm sure other combinations can be used to adjust a receiver I.F. or to test a mixer or other situations where an offset is needed.

# 224. 8924C ROM CHECKSUM ERROR

Yahoo group: hp8924
Date: 2010-11-27 15:15:15 UTC
From: jayw_comark
Topic: 224  Message: 224

Hello all,

Was wondering if anyone might know how to recover from this error. I've narrowed it down by swapping the CPU board from a known good unit, and the unit then works. I also tried swapping the socketed 28C256 EEPROM as well as the 27C010 PLCC, to and from the known good unit, and the problem stays with the CPU board. Based on this, I believe one or more of the four TSOP flash devices is corrupted. Looking through the service manual, it states:
"ROM Checksum Error
With the new firmware loaded into the Test Set's flash ROMs, the
checksum on the ROM is tested. A faulty checksum is most likely
caused by the flash ROMs themselves or possibly the controller circuits. In either case replace the A16 Controller assembly. "

I'm guessing that I need a firmware card to fix the unit, does anybody have a source for these or know otherwise how to recover? Note that this is a 6W max input unit.

Thanks for any assistance.

Jay

# 225. Re: [hp8924] 8924C ROM CHECKSUM ERROR

Yahoo group: hp8924
Date: 2010-11-27 17:44:39 UTC
From: Ralph S. Turk
Topic: 224  Message: 225

Amtronix dot com is your best friend. Call Rick and speak to him.
Ralph, W7HSG
----- Original Message -----
From: "jayw_comark" <jayw_comark@yahoo.com>
To: hp8924@yahoogroups.com
Sent: Saturday, November 27, 2010 8:15:15 AM
Subject: [hp8924] 8924C ROM CHECKSUM ERROR

Hello all,

Was wondering if anyone might know how to recover from this error. I've narrowed it down by swapping the CPU board from a known good unit, and the unit then works. I also tried swapping the socketed 28C256 EEPROM as well as the 27C010 PLCC, to and from the known good unit, and the problem stays with the CPU board. Based on this, I believe one or more of the four TSOP flash devices is corrupted. Looking through the service manual, it states:
"ROM Checksum Error
With the new firmware loaded into the Test Set's flash ROMs, the
checksum on the ROM is tested. A faulty checksum is most likely
caused by the flash ROMs themselves or possibly the controller circuits. In either case replace the A16 Controller assembly. "

I'm guessing that I need a firmware card to fix the unit, does anybody have a source for these or know otherwise how to recover? Note that this is a 6W max input unit.

Thanks for any assistance.

Jay

# 226. Re: 8924C ROM CHECKSUM ERROR

Yahoo group: hp8924
Date: 2010-11-28 12:27:23 UTC
From: jayw_comark
Topic: 224  Message: 226

Hi Ralph,

Thanks for the lead. Will contact him.

Jay

--- In hp8924@yahoogroups.com, "Ralph S. Turk" <w7hsg@...> wrote:
>
> Amtronix dot com is your best friend. Call Rick and speak to him.
> Ralph, W7HSG
> ----- Original Message -----
> From: "jayw_comark" <jayw_comark@...>
> To: hp8924@yahoogroups.com
> Sent: Saturday, November 27, 2010 8:15:15 AM
> Subject: [hp8924] 8924C ROM CHECKSUM ERROR
>
>
>
>
>
>
> Hello all,
>
> Was wondering if anyone might know how to recover from this error. I've narrowed it down by swapping the CPU board from a known good unit, and the unit then works. I also tried swapping the socketed 28C256 EEPROM as well as the 27C010 PLCC, to and from the known good unit, and the problem stays with the CPU board. Based on this, I believe one or more of the four TSOP flash devices is corrupted. Looking through the service manual, it states:
> "ROM Checksum Error
> With the new firmware loaded into the Test Set's flash ROMs, the
> checksum on the ROM is tested. A faulty checksum is most likely
> caused by the flash ROMs themselves or possibly the controller circuits. In either case replace the A16 Controller assembly. "
>
> I'm guessing that I need a firmware card to fix the unit, does anybody have a source for these or know otherwise how to recover? Note that this is a 6W max input unit.
>
> Thanks for any assistance.
>
> Jay
>

# 227. Re: 8924C ROM CHECKSUM ERROR

Yahoo group: hp8924
Date: 2010-11-28 17:26:30 UTC
From: WA9FVP
Topic: 224  Message: 227

I have 2 firmware cards rev. A.06.33. More than likely your 8924C has a later revision. If you can use them I'll send them to you but I would like them back.

--- In hp8924@yahoogroups.com, "jayw_comark" <jayw_comark@...> wrote:
>
> Hello all,
>
.
.
.

> With the new firmware loaded into the Test Set's flash ROMs, the
> checksum on the ROM is tested. A faulty checksum is most likely
> caused by the flash ROMs themselves or possibly the controller circuits. In either case replace the A16 Controller assembly. "
>
> I'm guessing that I need a firmware card to fix the unit, does anybody have a source for these or know otherwise how to recover? Note that this is a 6W max input unit.
>
> Thanks for any assistance.
>
> Jay
>

# 228. HP-8900 Microphone

Yahoo group: hp8924
Date: 2010-12-07 20:38:01 UTC
From: ka9qjg1
Topic: 228  Message: 228

Does anyone have the Info on What type of Microphone that the HP-8900 Series uses ( 8924C)

Plug, Wiring, Imp, Etc, Maybe I could take a Motorola Mic and wire it up
Or Where I can get one

Thanks

Don KA9QJG

# 229. Re: [hp8924] HP-8900 Microphone

Yahoo group: hp8924
Date: 2010-12-08 03:07:46 UTC
From: K6PNG
Topic: 228  Message: 229

Don,
Below is a thread from earlier on the same topic.
I hope you find this information useful.

73
Ray
K6PNG

Mating microphone connector found!

YES, that's it! It fits!

73's Skip WB6YMH
--- In hp8924@yahoogroups.com, K6PNG <irlp3358@...> wrote:
>
> Skip,
> That surely looks promising. As soon as you get it
> let us know as I am sure several of us would like to make
> a Mic up for this unit.
>
> 73
> Ray
> K6PNG
> IRLP 3358
> AllStar 2353
>
>
> wb6ymh wrote:
> >
> >
> > --- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>,
K6PNG
> > <irlp3358@> wrote:
> > >
> > > Skip,
> > > I have all but gave up trying to find the right connector.
> > > Let me and the list members know if you have better luck than me.
> > >
> > > 73
> > > Ray
> > > K6PNG
> >
> > Well I took that as a challenge and an hour+ later I *think* I
found it!
> >
> > http://www.mouser.com/Search/Refine.aspx?Keyword=t3524-501

> > <http://www.mouser.com/Search/Refine.aspx?Keyword=t3524-501>
> >
> > I ordered one so I'll let you know if it actually fits or not.
> >
> > 73's Skip WB6YMH
> > (Google is your friend, but even friends give you grief from time to
> > time !)
> >
> >
>

On 12/7/2010 12:38 PM, ka9qjg1 wrote:
> Does anyone have the Info on What type of Microphone that the HP-8900 Series uses (
8924C)
>
> Plug, Wiring, Imp, Etc, Maybe I could take a Motorola Mic and wire it up
> Or Where I can get one
>
> Thanks
>
> Don KA9QJG
>
>
>
>
> ----------
>
> Yahoo! Groups Links
>
>
>
>

# 230. LMR setup

Yahoo group: hp8924
Date: 2010-12-09 03:01:45 UTC
From: rickc3204
Topic: 230  Message: 230

Hello, am new to group. Been using IFR 1200s for many years and now have acquired an HP-8924c. Unit is in good condition with new CRT.
Question is this..
Is there an easy way to set monitor up for servicing LMR? Without all the CDMA mumbo jumbo.
Example of Unit under test.
Yaesu FTL series 463.8 mhz, pl of 71.9
thanks in advance

# 231. Re: LMR setup

Yahoo group: hp8924
Date: 2010-12-09 13:24:11 UTC
From: travis8303
Topic: 230  Message: 231

You may find the data at the Amtronix web site will help.

http://www.amtronix.com/hp8924c60.htm

Particularly this one:
http://www.amtronix.com/poweron.htm

Additional software and hardware items I use with the 8924C for LMR work:
http://aa9nv.r2i.net/HP8924C.htm

Travis
AA9NV

--- In hp8924@yahoogroups.com, "rickc3204" <kd8dc@...> wrote:
>
> Hello, am new to group. Been using IFR 1200s for many years and now have acquired an HP-8924c. Unit is in good condition with new CRT.
> Question is this..
> Is there an easy way to set monitor up for servicing LMR? Without all the CDMA mumbo jumbo.
> Example of Unit under test.
> Yaesu FTL series 463.8 mhz, pl of 71.9
> thanks in advance
>

# 232. Re: LMR setup

Yahoo group: hp8924
Date: 2010-12-10 01:09:31 UTC
From: WA9FVP
Topic: 230  Message: 232

You can use the DUPLEX screen to setup the LMR test.

Set the generator to the repeater's input frequency and the receiver/analyzer to the repeaters output frequency. The RF port connects to the repeater's transmit output. The generator is configured to the duplex port and connected to the repeaters input. On the DUPLEX screen don't forget to configure the receiver/analyzer to the RF port.

In the DUPLEX screen you can set up AF generator for the test tone frequency and connect it to FM at 4.5 KHz deviation but generator 2 will have to be configured on the GENERATOR screen for FM and the PL tone deviation.

--- In hp8924@yahoogroups.com, "rickc3204" <kd8dc@...> wrote:
>
> Hello, am new to group. Been using IFR 1200s for many years and now have acquired an HP-8924c. Unit is in good condition with new CRT.
> Question is this..
> Is there an easy way to set monitor up for servicing LMR? Without all the CDMA mumbo jumbo.
> Example of Unit under test.
> Yaesu FTL series 463.8 mhz, pl of 71.9
> thanks in advance
>

# 233. HP8924C Randomly Turns Off.....

Yahoo group: hp8924
Date: 2010-12-28 16:54:05 UTC
From: Mike
Topic: 233  Message: 233

Morning all,
I have an HP8924C, and have started to experience an issue that is very annoying.

The Unit will randomly turn off and restart, or will also intermittently turn off when applying RF into the 100W I/O port.

.....And intermittently will turn on but not boot (Screen Remains Blank)

Has anyone run across this and a possible solution?

Here are the current specs on the unit.

Boot Loader: A.02.02
Firmware: A.08.02
Option: 601

# 234. RE: [hp8924] HP8924C Randomly Turns Off.....

Yahoo group: hp8924
Date: 2010-12-28 19:57:48 UTC
From: Mike, KD7MG
Topic: 233  Message: 234

I've recently had a problem with mine where if I switch it off it will randomly power itself on and off again. I temporarily solved it by leaving it switched on and powering it up using a power strip. When powered on, mine functions properly even with high levels of RF, so I'm not seeing exactly what you are. One day I'll tear into it and see what gives, but I'm happy with the work-around for now.

Mike

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Mike
Sent: Tuesday, December 28, 2010 9:54 AM
To: hp8924@yahoogroups.com
Subject: [hp8924] HP8924C Randomly Turns Off.....

Morning all,
I have an HP8924C, and have started to experience an issue that is very annoying.

The Unit will randomly turn off and restart, or will also intermittently turn off when applying RF into the 100W I/O port.

.....And intermittently will turn on but not boot (Screen Remains Blank)

Has anyone run across this and a possible solution?

Here are the current specs on the unit.

Boot Loader: A.02.02
Firmware: A.08.02
Option: 601

# 235. Re: HP8924C Randomly Turns Off.....

Yahoo group: hp8924
Date: 2010-12-28 20:50:50 UTC
From: Mike
Topic: 233  Message: 235

I too have seen that once on the monitor..... I'm guessing I've got a power supply issue....

Mike
--- In hp8924@yahoogroups.com, "Mike, KD7MG" <kd7mg@...> wrote:
>
> I've recently had a problem with mine where if I switch it off it will
> randomly power itself on and off again. I temporarily solved it by leaving
> it switched on and powering it up using a power strip. When powered on, mine
> functions properly even with high levels of RF, so I'm not seeing exactly
> what you are. One day I'll tear into it and see what gives, but I'm happy
> with the work-around for now.
>
> Mike
>
>
>
> From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of
> Mike
> Sent: Tuesday, December 28, 2010 9:54 AM
> To: hp8924@yahoogroups.com
> Subject: [hp8924] HP8924C Randomly Turns Off.....
>
>
>
>
>
> Morning all,
> I have an HP8924C, and have started to experience an issue that is very
> annoying.
>
> The Unit will randomly turn off and restart, or will also intermittently
> turn off when applying RF into the 100W I/O port.
>
> .....And intermittently will turn on but not boot (Screen Remains Blank)
>
> Has anyone run across this and a possible solution?
>
> Here are the current specs on the unit.
>
> Boot Loader: A.02.02
> Firmware: A.08.02
> Option: 601
>

# 236. Re: HP8924C Randomly Turns Off.....

Yahoo group: hp8924
Date: 2010-12-29 17:16:58 UTC
From: Joe Leikhim
Topic: 233  Message: 236

My first though was power supply, then I was stumped by the problem of applying RF to the I/O port. Now I am thinking power supply again. Suppose the power supply is marginal, and you are testing a transmitter on the bench that is itself pulling down the main AC power voltage? Could that be happening?

--
Joe Leikhim

Leikhim and Associates
Communications Consultants
Oviedo, Florida

www.Leikhim.com

JLeikhim@...

407-982-0446

# 237. Re: HP8924C Randomly Turns Off.....

Yahoo group: hp8924
Date: 2010-12-29 17:08:05 UTC
From: WA9FVP
Topic: 233  Message: 237

Sometimes my 8924C stays on when I turn to power off. I think it's caused by a worn or stuck power switch. When I press it on and off again, it turns off.

--- In hp8924@yahoogroups.com, "Mike, KD7MG" <kd7mg@...> wrote:
>
> I've recently had a problem with mine where if I switch it off it will
> randomly power itself on and off again. I temporarily solved it by leaving
> it switched on and powering it up using a power strip. When powered on, mine
> functions properly even with high levels of RF, so I'm not seeing exactly
> what you are. One day I'll tear into it and see what gives, but I'm happy
> with the work-around for now.
>
> Mike
>
>
>
> From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of
> Mike
> Sent: Tuesday, December 28, 2010 9:54 AM
> To: hp8924@yahoogroups.com
> Subject: [hp8924] HP8924C Randomly Turns Off.....
>
>
>
>
>
> Morning all,
> I have an HP8924C, and have started to experience an issue that is very
> annoying.
>
> The Unit will randomly turn off and restart, or will also intermittently
> turn off when applying RF into the 100W I/O port.
>
> .....And intermittently will turn on but not boot (Screen Remains Blank)
>
> Has anyone run across this and a possible solution?
>
> Here are the current specs on the unit.
>
> Boot Loader: A.02.02
> Firmware: A.08.02
> Option: 601
>

# 238. 8924 no audio

Yahoo group: hp8924
Date: 2010-12-29 18:58:18 UTC
From: Trayer
Topic: 238  Message: 238

Hello all, I just recently bought an 8924c with the 100 watt in option. I'm using it as an analog monitor, but I can't get any audio from the audio out bnc or the speaker. The oscilloscope shows audio, and the squelch pot does gate the audio, but I hear nothing, and I get nothing but a tone from the front audio out bnc. I hooked a tectronix oscope to the audio out, and I see the tone. In the config menu, I have af volume set to pot, I do get the beep when I enter an invalid keystroke. Any help? Thanks

# 239. Re: [hp8924] 8924 no audio

Yahoo group: hp8924
Date: 2010-12-29 22:47:48 UTC
From: MICHAEL SMITH
Topic: 238  Message: 239

Do you the AF Anl In set to FM Demod? What screen are you in?

Sent from my iPhone

Mike / KB8WLW

On Dec 29, 2010, at 1:58 PM, Trayer <wqes485@yahoo.com> wrote:

> Hello all, I just recently bought an 8924c with the 100 watt in option. I'm using it as an analog monitor, but I can't get any audio from the audio out bnc or the speaker. The oscilloscope shows audio, and the squelch pot does gate the audio, but I hear nothing, and I get nothing but a tone from the front audio out bnc. I hooked a tectronix oscope to the audio out, and I see the tone. In the config menu, I have af volume set to pot, I do get the beep when I enter an invalid keystroke. Any help? Thanks
>
>

# 240. Re: [hp8924] 8924 no audio

Yahoo group: hp8924
Date: 2010-12-30 00:50:11 UTC
From: Trayer Rende
Topic: 238  Message: 240

In the AF analyzer screen, ANL in is set to FM demod. I'm getting readings on freq error, fm deviation af freq, tx power... Filter 1 50Hz, Filter 2 15khz, de-emphasis off, detector peak+-max, settling fast, pk det to filters, scope to filters, speaker vol -Pot, speaker ALC-on, gain control-auto, input de-emph and notch gain to 0, notch freq. 1khz, audio in lo -gnd, ext -8ohm, AF cnt gate -10ms, dc current 0, To Screen -Analog with RX test, and config-config. In the RX test screen, if i config the AF gen to audio out, i am getting tone out of the audio-out connector to my o-scope, so that port is functional. If i change the tones frequency, it responds by changing frequency. For some reason, i cant get any FM demod, just tone. I get the startup beep from the front speaker, and i get the invalid beep, so the speaker i believe is functional. I owned an IFR1000S before this, It's acting like the internal/ demod to speaker is stuck on internal.

Do you the AF Anl In set to FM Demod? What screen are you in?

Sent from my iPhone

Mike / KB8WLW

On Dec 29, 2010, at 1:58 PM, Trayer <wqes485@...> wrote:

>
>
> Hello all, I just recently bought an 8924c with the 100 watt in option. I'm using it as an analog monitor, but I can't get any audio from the audio out bnc or the speaker. The oscilloscope shows audio, and the squelch pot does gate the audio, but I hear nothing, and I get nothing but a tone from the front audio out bnc. I hooked a tectronix oscope to the audio out, and I see the tone. In the config menu, I have af volume set to pot, I do get the beep when I enter an invalid keystroke. Any help? Thanks

# 241. Re: [hp8924] 8924 no audio

Yahoo group: hp8924
Date: 2010-12-30 01:41:56 UTC
From: Trayer Rende
Topic: 238  Message: 241

I ran the unit through all the self tests, all passed. AF test, RF test, CDMA test, internal audio paths, external audio paths, they all passed. The audio out connector works , I can send tone to my oscilloscope, I can change waveforms and are all correct, and I can adjust deviation, but i cannot seem to get FM demod to come from the Audio Out port, or get any audio (other than the startup beep and invalid tone) to come out of the speaker. The squelch knob gates the audio in the AF anl screen, volume pot has no affect on anything. FM demod makes it to the scope and the AF anl no problem. What to do next?

# 242. Re: [hp8924] 8924 no audio

Yahoo group: hp8924
Date: 2010-12-30 13:38:25 UTC
From: MICHAEL SMITH
Topic: 238  Message: 242

I'm at work now and can not recreate your setup. But I wonder if there is a "POWERON" configuration saved that might be creating your problem. When in the spectrum analyzer screen, if width is set over 1.5 MHz the unit will not Demod. If you leave that screen and go to another screen, I have noticed that it won't Demod unless you go back to the spectrum screen and change the width or press the TX test button to enter that screen and then back to the screen you want. Of course all screens on analog mode.

Have you tried pressing "Preset" to reset everything and then reconfigure it?

Sent from my iPhone

Mike / KB8WLW

On Dec 29, 2010, at 7:50 PM, Trayer Rende <wqes485@...> wrote:

>
> In the AF analyzer screen, ANL in is set to FM demod. I'm getting readings on freq error, fm deviation af freq, tx power... Filter 1 50Hz, Filter 2 15khz, de-emphasis off, detector peak+-max, settling fast, pk det to filters, scope to filters, speaker vol -Pot, speaker ALC-on, gain control-auto, input de-emph and notch gain to 0, notch freq. 1khz, audio in lo -gnd, ext -8ohm, AF cnt gate -10ms, dc current 0, To Screen -Analog with RX test, and config-config. In the RX test screen, if i config the AF gen to audio out, i am getting tone out of the audio-out connector to my o-scope, so that port is functional. If i change the tones frequency, it responds by changing frequency. For some reason, i cant get any FM demod, just tone. I get the startup beep from the front speaker, and i get the invalid beep, so the speaker i believe is functional. I owned an IFR1000S before this, It's acting like the internal/ demod to speaker is stuck on internal.
>
> Do you the AF Anl In set to FM Demod? What screen are you in?
>
> Sent from my iPhone
>
> Mike / KB8WLW
>
> On Dec 29, 2010, at 1:58 PM, Trayer <wqes485@...> wrote:
>
> >
> >
> > Hello all, I just recently bought an 8924c with the 100 watt in option. I'm using it as an analog monitor, but I can't get any audio from the audio out bnc or the speaker. The oscilloscope shows audio, and the squelch pot does gate the audio, but I hear nothing, and I get nothing but a tone from the front audio out bnc. I hooked a tectronix oscope to the audio out, and I see the tone. In the config menu, I have af volume set to pot, I do get the beep when I enter an invalid keystroke. Any help? Thanks
>
>

# 243. 8924C power supply diagram???

Yahoo group: hp8924
Date: 2011-01-26 11:10:19 UTC
From: CW
Topic: 243  Message: 243

Hello all,

I have 8924C and replaced some caps on PS board. But mine still does not show initial screen showing map with 8924C logo and self test message if I turn it on in a long time which means display comes up late. I usually unplug AC cord. What is possible problem? Is any body have circuit diagram for power supply?

My email is 'kirisame9@...'

Thank you.

# 244. Re: 8924C power supply diagram???

Yahoo group: hp8924
Date: 2011-01-26 12:34:11 UTC
From: Trayer Rende
Topic: 243  Message: 244

My 8924C takes a bit to come up, about 20 seconds for the map pic to come up. That is normal, as it has done that since new. Then is operable within a minute. Are you sure the tube is ok? I had a worn tube in an IFR 1000S, and it took 4 to 6 minutes to show the display, where the monitor itself was locked and on within 10 seconds. Also, you can reprogram the PowerOn startup to make the map not show up, and behave exactly like an 8920. I'll try to hunt down my schematics...

# 245. Re: [hp8924] Digest Number 122

Yahoo group: hp8924
Date: 2011-01-26 13:48:00 UTC
From: Jay Walling
Topic: 245  Message: 245

Does the fan come on right away? If so, I would check the caps in the CRT assembly, or just re-cap it completely.

Jay

--- On Wed, 1/26/11, hp8924@yahoogroups.com <hp8924@yahoogroups.com> wrote:

From: hp8924@yahoogroups.com <hp8924@yahoogroups.com>
Subject: [hp8924] Digest Number 122
To: hp8924@yahoogroups.com
Date: Wednesday, January 26, 2011, 8:05 AM

There are 2 messages in this issue.

Topics in this digest:

1a. 8924C power supply diagram???
    From: CW
1b. Re: 8924C power supply diagram???
    From: Trayer Rende

Messages

---

1a. 8924C power supply diagram???
    Posted by: "CW" kirisame9@... kirisame9
    Date: Wed Jan 26, 2011 3:10 am ((PST))

Hello all,

I have 8924C and replaced some caps on PS board. But mine still does not show initial screen showing map with 8924C logo and self test message if I turn it on in a long time which means display comes up late. I usually unplug AC cord. What is possible problem? Is any body have circuit diagram for power supply?

My email is 'kirisame9@yahoo.co.kr'

Thank you.

Messages in this topic (2)

---

1b. Re: 8924C power supply diagram???
    Posted by: "Trayer Rende" wqes485@... wqes485
    Date: Wed Jan 26, 2011 4:34 am ((PST))

My 8924C takes a bit to come up, about 20 seconds for the map pic to come up. That is normal, as it has done that since new. Then is operable within a minute. Are you sure the tube is ok? I had a worn tube in an IFR 1000S, and it took 4 to 6 minutes to show the display, where the monitor itself was locked and on within 10 seconds.  Also, you can

reprogram the PowerOn startup to make the map not show up, and behave exactly like an 8920. I'll try to hunt down my schematics...

Messages in this topic (2)

---

Yahoo! Groups Links

---

# 246. Re: 8924C power supply diagram???

Yahoo group: hp8924
Date: 2011-01-27 02:54:39 UTC
From: CW
Topic: 243  Message: 246

Hello, Rendy,

I appreciate for your update. Mine comes up late about 90 seconds or more when I power on at first time but cycling power the display will come up much fast. The tube seems OK once it completely come up. However I have burnt resistor on SMPS board which is R29. Do you know the value for it???

Thanks.

--- In hp8924@yahoogroups.com, Trayer Rende <wqes485@...> wrote:
>
> My 8924C takes a bit to come up, about 20 seconds for the map pic to come up. That is normal, as it has done that since new. Then is operable within a minute. Are you sure the tube is ok? I had a worn tube in an IFR 1000S, and it took 4 to 6 minutes to show the display, where the monitor itself was locked and on within 10 seconds. Also, you can reprogram the PowerOn startup to make the map not show up, and behave exactly like an 8920. I'll try to hunt down my schematics...
>

# 247. Re: Digest Number 122

Yahoo group: hp8924
Date: 2011-01-27 02:58:56 UTC
From: CW
Topic: 245  Message: 247

The FAN came up right away with power SW on. I will try to replace caps on display circuit soon.

Thanks.

--- In hp8924@yahoogroups.com, Jay Walling <jayw_comark@...> wrote:
>
> Does the fan come on right away? If so, I would check the caps in the CRT assembly, or just re-cap it completely.
>
> Jay
>
>
>
>
> --- On Wed, 1/26/11, hp8924@yahoogroups.com <hp8924@yahoogroups.com> wrote:
>
> From: hp8924@yahoogroups.com <hp8924@...m>
> Subject: [hp8924] Digest Number 122
> To: hp8924@yahoogroups.com
> Date: Wednesday, January 26, 2011, 8:05 AM
>
> There are 2 messages in this issue.
>
> Topics in this digest:
>
> 1a. 8924C power supply diagram???5533; ?
> ? ? From: CW
> 1b. Re: 8924C power supply diagram???? ?
> ? ? From: Trayer Rende
>
>
> Messages
> _____
> 1a. 8924C power supply diagram???
> ? ? Posted by: "CW" kirisame9@... kirisame9
> ? ? Date: Wed Jan 26, 2011 3:10 am ((PST))
>
> Hello all,
>
> I have 8924C and replaced some caps on PS board. But mine still does not show initial screen showing map with 8924C logo and self test message if I turn it on in a long time which means display comes up late. I usually unplug AC cord. What is possible problem? Is any body have circuit diagram for power supply?
>

> My email is 'kirisame9@...'
>
> Thank you.
>
>
>
>
>
>
> Messages in this topic (2)
> _____
> 1b. Re: 8924C power supply diagram???
> ? ? Posted by: "Trayer Rende" wqes485@... wqes485
> ? ? Date: Wed Jan 26, 2011 4:34 am ((PST))
>
> My 8924C takes a bit to come up, about 20 seconds for the map pic to come up. That is normal, as it has done that since new. Then is operable within a minute. Are you sure the tube is ok? I had a worn tube in an IFR 1000S, and it took 4 to 6 minutes to show the display, where the monitor itself was locked and on within 10 seconds.? Also, you can reprogram the PowerOn startup to make the map not show up, and behave exactly like an 8920. I'll try to hunt down my schematics...
>
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> Messages in this topic (2)
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> Yahoo! Groups Links
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# 248. How Hot Should This Run

Yahoo group: hp8924
Date: 2011-02-04 20:22:19 UTC
From: radioman762
Topic: 248  Message: 248

I just decided to check the air outlet temperature on my unit. About an inch away from where air is blowing out on the left side, near the front, I am getting a reading of 110 degrees F. Room temp is in the mid-60's.

This seems a bit high. Any suggestions? I have thought of pulling off the covers and checking for dust.

Thanks.

# 249. RE: [hp8924] How Hot Should This Run

Yahoo group: hp8924
Date: 2011-02-04 22:06:13 UTC
From: Mike, KD7MG
Topic: 248  Message: 249

When I received mine, it was pretty loaded with dust. I haven't actually measured the outlet temp, but I know it's got to be a lot better than it was. Once the outside cover is off, go ahead and pull the inside covers to really dust it out.

>This seems a bit high. Any suggestions? I have thought of pulling off the covers and checking for dust.

# 250. Re: [hp8924] How Hot Should This Run

Yahoo group: hp8924
Date: 2011-02-04 22:33:42 UTC
From: Ralph S. Turk
Topic: 248  Message: 250

Just make sure you do NOT run it with the fan shield off. This shield conducts the air through the PS which will burn up if the fan air stops. It takes about 120 seconds for the PS to get too hot.
Ralph, W7HSG
----- Original Message -----
From: "KD7MG Mike" <kd7mg@...>
To: hp8924@yahoogroups.com
Sent: Friday, February 4, 2011 3:06:13 PM
Subject: RE: [hp8924] How Hot Should This Run

When I received mine, it was pretty loaded with dust. I haven’t actually measured the outlet temp, but I know it’s got to be a lot better than it was. Once the outside cover is off, go ahead and pull the inside covers to really dust it out.

> This seems a bit high. Any suggestions? I have thought of pulling off the covers and checking for dust.

# 251. Re: [hp8924] How Hot Should This Run

Yahoo group: hp8924
Date: 2011-02-05 20:35:30 UTC
From: Ralph S. Turk
Topic: 248  Message: 251

I made the following measurements on my 8924 today.
Shop temp 60-62 degrees

Time 30 min 60 Min 180 min
Left side 70 78 80
Right side 62 67 68
Rear 60 64 64
Front Panel 72 78 78

All measurements made with a Raytek ST digital
ir temperature tester

Ralph, W7HSG
----- Original Message -----
From: "radioman762" <fwbray@...>
To: hp8924@yahoogroups.com
Sent: Friday, February 4, 2011 1:22:19 PM
Subject: [hp8924] How Hot Should This Run

I just decided to check the air outlet temperature on my unit. About an inch away from where air is blowing out on the left side, near the front, I am getting a reading of 110 degrees F. Room temp is in the mid-60's.

This seems a bit high. Any suggestions? I have thought of pulling off the covers and checking for dust.

Thanks.

# 252. 60 or 100 watt upgrade.

Yahoo group: hp8924
Date: 2011-02-16 06:12:05 UTC
From: K6PNG
Topic: 248  Message: 252

Hello all,

Has anyone in the group done the 60 or 100 watt upgrade to your unit?
If so could you please post how much time it took to complete and
if everything worked out good for you. I am thinking of purchasing
one of the upgrade kits on ebay and wanted some input first.

Thanks,
Ray
K6PNG

# 253. Re: [hp8924] 60 or 100 watt upgrade.

Yahoo group: hp8924
Date: 2011-02-16 11:21:40 UTC
From: zigs68@yahoo.com
Topic: 248  Message: 253

I did the upgrade a while ago (60 watt upgrade) and it took me about 30-45 minutes from what I remember.  What I got was an attenuation pad of a higher value than the 5 watt unit which you replaced on top of the heatsink that allowed you to read 60 watts of RF - and it could go to 100 watts supposedly but I never had anything over 60 watts to test it out.  They show the 60 watt units hanling 100 watts on some of the ebay sales so I guess it can do it.  You also got a calibration data card that you needed to upload the data from so that the 8924 knew it had the higher value pad installed and made the wattage values display correctly.  You even got a warning sticker to place over the RF input port that said 60 watts max instead of the 5 watts that was there.  No fancy soldering equipment needed for this - just a standard soldering iron did it. to remove and reinstall the pad.  And of course you nneded standard tools to take the case apart to get to the heatsink.

So far it has been working fine.  The interesting thing was that the heatsinks for the 5 watt model and the higher wattage model are the same - just the pad gets changed.  If this is the same ebay vendor doing this that I had the support was great.  If you had questions on uploading the cal data he talked you through it on the phone.

---
From: K6PNG <irlp3358@...>
To: hp8924@yahoogroups.com
Sent: Wed, February 16, 2011 1:12:05 AM
Subject: [hp8924] 60 or 100 watt upgrade.

Hello all,

Has anyone in the group done the 60 or 100 watt upgrade to your unit?
If so could you please post how much time it took to complete and
if everything worked out good for you. I am thinking of purchasing
one of the upgrade kits on ebay and wanted some input first.

Thanks,
Ray
K6PNG

# 254. Re: [hp8924] 60 or 100 watt upgrade.

Yahoo group: hp8924
Date: 2011-02-22 00:22:39 UTC
From: K6PNG
Topic: 248  Message: 254

Thanks for the info. I hope my experience is as good as yours.

73
Ray
K6PNG

On 2/16/2011 3:21 AM, zigs68@... wrote:
>
>
> I did the upgrade a while ago (60 watt upgrade) and it took me about
> 30-45 minutes from what I remember. What I got was an attenuation pad of
> a higher value than the 5 watt unit which you replaced on top of the
> heatsink that allowed you to read 60 watts of RF - and it could go to
> 100 watts supposedly but I never had anything over 60 watts to test it
> out. They show the 60 watt units hanling 100 watts on some of the ebay
> sales so I guess it can do it. You also got a calibration data card that
> you needed to upload the data from so that the 8924 knew it had the
> higher value pad installed and made the wattage values display
> correctly. You even got a warning sticker to place over the RF input
> port that said 60 watts max instead of the 5 watts that was there. No
> fancy soldering equipment needed for this - just a standard soldering
> iron did it. to remove and reinstall the pad. And of course you nneded
> standard tools to take the case apart to get to the heatsink.
> So far it has been working fine. The interesting thing was that the
> heatsinks for the 5 watt model and the higher wattage model are the same
> - just the pad gets changed. If this is the same ebay vendor doing this
> that I had the support was great. If you had questions on uploading the
> cal data he talked you through it on the phone.
>
> ---
> *From:* K6PNG <irlp3358@...>
> *To:* hp8924@yahoogroups.com
> *Sent:* Wed, February 16, 2011 1:12:05 AM
> *Subject:* [hp8924] 60 or 100 watt upgrade.
>
> Hello all,
>
> Has anyone in the group done the 60 or 100 watt upgrade to your unit?
> If so could you please post how much time it took to complete and
> if everything worked out good for you. I am thinking of purchasing
> one of the upgrade kits on ebay and wanted some input first.
>
> Thanks,
> Ray
> K6PNG

>
>
>
>
>

# 255. Re: R29 value on power supply

Yahoo group: hp8924
Date: 2011-02-26 21:09:20 UTC
From: William
Topic: 215  Message: 255

I just checked my power supply it looks like 150 ohms ( Brown Green Brown) to me.
Bill

--- In hp8924@yahoogroups.com, "CW" <kirisame9@...> wrote:
>
> Dear. Gentlemen,
>
> I bought used 8924C and found it need a time to powering up about 10~15min. It seemed bad capacitors on power supply. And I replaced few capacitors(C5, C10 & C11) on SMPS. Now I could resolve power on delay issue but I found R29 is discolored while I'm replacing capacitors because of too much heat. I couldn't read value on it. Does anyone advise me the value of R29?
>
> Another problem is 1 min after power switch is pushed in upper side of CRT is wobbling for a while and display as normal. I think the CRT lights up late because of known reason. The CRT has stain on fluorescent material but working good once lights up. Does anyone has idea about this?
>
> Any advise would be appreciated.
>
> Thank you in advance.
>

# 256. Re: 60 or 100 watt upgrade.

Yahoo group: hp8924
Date: 2011-03-02 22:42:37 UTC
From: WA9FVP
Topic: 248  Message: 256

I used an external 100 watt, 20db power attenautor on the RF port and compensated the attenuation in the configuration menu. See the file "3W_300W_Conversion.pdf". I only paid $20 for the power attenuator.

--- In hp8924@yahoogroups.com, K6PNG <irlp3358@...> wrote:
>
> Hello all,
>
> Has anyone in the group done the 60 or 100 watt upgrade to your unit?
> If so could you please post how much time it took to complete and
> if everything worked out good for you. I am thinking of purchasing
> one of the upgrade kits on ebay and wanted some input first.
>
> Thanks,
> Ray
> K6PNG
>

# 257. 8924 Power Supply

Yahoo group: hp8924
Date: 2011-03-13 18:10:54 UTC
From: Ralph S. Turk
Topic: 257  Message: 257

Hi All
Has anyone found a schematic diagram for
an 8924 Power Supply or any other modules.

I have an 8924 with what I think is a dead PS.
The little green led light does come on.
No fan etc.

Ralph, W7HSG

# 258. Re: 8924 Power Supply

Yahoo group: hp8924
Date: 2011-03-13 19:36:32 UTC
From: Ralph S. Turk
Topic: 257  Message: 258

We have found some 8920 schematics. Wonder
how close they would be?
Ralph, W7HSG
----- Original Message -----
From: "Lee" <kj4jtt@...>
To: w7hsg@...
Sent: Sunday, March 13, 2011 11:25:23 AM
Subject: Re: 8924 Power Supply

Ralph,
I have asked the same question several times on this and other
groups. Each time someone replied that they had one and would post it
but it never happened. If you do come across one - please let me know where.

Thanks,

Lee
KJ4JTT

--
Sent from my Macintosh Computer because my Blackberry is junk.

# 259. Re: [hp8924] Re: 8924 Power Supply

Yahoo group: hp8924
Date: 2011-03-13 19:47:44 UTC
From: K6PNG
Topic: 257  Message: 259

if anyone finds schematics or a service manual online by all means post
it to the files section. that way it will help all of us.

73
Ray
K6PNG

On 3/13/2011 12:36 PM, Ralph S. Turk wrote:
>
>
> We have found some 8920 schematics. Wonder
> how close they would be?
> Ralph, W7HSG
> ----- Original Message -----
> From: "Lee" <kj4jtt@...>
> To: w7hsg@...
> Sent: Sunday, March 13, 2011 11:25:23 AM
> Subject: Re: 8924 Power Supply
>
> Ralph,
> I have asked the same question several times on this and other
> groups. Each time someone replied that they had one and would post it
> but it never happened. If you do come across one - please let me know where.
>
> Thanks,
>
> Lee
> KJ4JTT
>
> --
> Sent from my Macintosh Computer because my Blackberry is junk.
>
>
>
>

# 260. RE: [hp8924] Re: 8924 Power Supply

Yahoo group: hp8924
Date: 2011-03-13 20:12:25 UTC
From: Mike, KD7MG
Topic: 257  Message: 260

No real schematics, just block diagrams, but the 8924C service/repair manual can be DL'ed direct from Agilent. Check out the first hit…

http://www.google.com/search?q=8924C+Repair+Manual

Yes, a set of schematics would be very nice, but I haven't run across any available (yet).

Cheers,
Mike

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of K6PNG
Sent: Sunday, March 13, 2011 1:48 PM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Re: 8924 Power Supply

if anyone finds schematics or a service manual online by all means post
it to the files section. that way it will help all of us.

73
Ray
K6PNG

On 3/13/2011 12:36 PM, Ralph S. Turk wrote:
>
>
> We have found some 8920 schematics. Wonder
> how close they would be?
> Ralph, W7HSG
> ----- Original Message -----
> From: "Lee" <kj4jtt@... <mailto:kj4jtt%40tampabay.rr.com> >
> To: w7hsg@... <mailto:w7hsg%40comcast.net>
> Sent: Sunday, March 13, 2011 11:25:23 AM
> Subject: Re: 8924 Power Supply
>
> Ralph,
> I have asked the same question several times on this and other
> groups. Each time someone replied that they had one and would post it
> but it never happened. If you do come across one - please let me know where.
>
> Thanks,
>
> Lee
> KJ4JTT

# 261. return loss

Yahoo group: hp8924
Date: 2011-04-20 02:24:01 UTC
From: jimmyrtle
Topic: 261  Message: 261

Has anyone tried to measure return loss with a mini circuits directional coupler?

# 262. Re: return loss

Yahoo group: hp8924
Date: 2011-04-20 13:15:58 UTC
From: wb9oih
Topic: 261  Message: 262

Jimmy,
I have been using a Mini-Circuits ZFDC-20-5 directional coupler with the hp8924 with great success. This coupler is spected from 0.1 mhz. to 2 ghz. It has 20 db of coupling and averages 30 db of directivity across its range. It is a very useful tool for looking at antennas, cavities, filters, etc.

Mini-Circuits lists the price at $89.95 but I got mine on ebay for less than a quarter of that. YMMV.

Al,
K9SI

--- In hp8924@yahoogroups.com, "jimmyrtle" <jimmyrtle@...> wrote:
>
> Has anyone tried to measure return loss with a mini circuits directional coupler?
>

# 263. 8924C as an RF Sweep/Burst Generator

Yahoo group: hp8924
Date: 2011-04-21 01:23:16 UTC
From: willcoele@ameritech.net
Topic: 263  Message: 263

I don't know if you ever tried this but I used my 8924C as an RF Burst generator.

You can setup an RF burst or sweep using in the Encoder Button in the Analog Screens key group. In the Encoder screen, under Mode, select Func Gen. In the function generator screen under Waveform, you can select Sine, Square, Triangle or Ramp. Set the Frequency to 10Hz but you can tweek the frequency in the RF Gen screen.

In the RF Gen screen, turn off AF Generator 1. Turn on AF Generator 2 by highlighting the amplitude and select AM if you want a tone burst or FM if you want an RF sweep. If your doing an RF sweep, go back to the encoder menu and select Sine, Triangle or Ramp. If you want an RF burst, select Square.

When using a RF burst in AM mode, I adjust the modulation to 125%. In FM mode, you can sweep a maximum of 125 KHz.

You can sweep using the spectrum analyzer and the tracking generator but you can't ramp the frequency up and down using the Sine or Triangle function

# 264. Re: RF Generator dead between 250 and 280MHz

Yahoo group: hp8924
Date: 2011-05-03 01:35:44 UTC
From: willcoele@ameritech.net
Topic: 216  Message: 264

I posted back on Oct 1, 2010

>
> My 8924C developed a problem where there's dead spot between 255 and 280 MHz. I can see it in the spectrum analyzer when the tracking generator is on and there's no output in that range on the RF IN/OUT port or the Duplex port. There's a 250 to 500 MHz path where the 500MHz to 1GHz generator passes through a divide by 2, a modulator and a low pass filter on the A26 board. I'm sure the problem is on the A26 board. Has anyone experienced this?
>

Then on Oct 4, 2010

On the A24 module (the RF Generator) there's an adjustment called "VCO BIAS"
With the 8924C in spectrum analyzer mode, tracking generator on, I adjusted the "pot" counter clockwise. The gap narrowed. After about 5 turns on a 10 turn pot, the dead spot was gone. I'm not sure what the adjustment is for, it's not covered in the manual. I checked the RF generator frequency and level at several frequencies and nothing changed. I was able to complete the CDMA_CAL Routines with no errors (see page 123 in the repair manual.
>
>
Now it's back and I'm not sure if adjusting the VCO Bias will fix it.
I'm wondering if it's a bad electrolytic capacitor that's drying out.
Does anyone have any ideas or have you encountered the same problem?

# 265. Re: RF Generator dead between 250 and 280MHz

Yahoo group: hp8924
Date: 2011-05-03 14:32:29 UTC
From: Joe Leikhim
Topic: 216  Message: 265

Are you allowing a 15 minute warm up before checking for this problem?

--
Joe Leikhim

Leikhim and Associates
Communications Consultants
Oviedo, Florida

www.Leikhim.com

JLeikhim@...

407-982-0446

# 266. Re: return loss

Yahoo group: hp8924
Date: 2011-05-05 00:28:23 UTC
From: jimmyrtle
Topic: 261  Message: 266

Thanks Al,
I've started hunting for a ZFDC-20-5.
Jim

--- In hp8924@yahoogroups.com, "wb9oih" <alw.k9si@...> wrote:
>
> Jimmy,
> I have been using a Mini-Circuits ZFDC-20-5 directional coupler with the hp8924 with great success. This coupler is spected from 0.1 mhz. to 2 ghz. It has 20 db of coupling and averages 30 db of directivity across its range. It is a very useful tool for looking at antennas, cavities, filters, etc.
>
> Mini-Circuits lists the price at $89.95 but I got mine on ebay for less than a quarter of that. YMMV.
>
> Al,
> K9SI
>
>
>
> --- In hp8924@yahoogroups.com, "jimmyrtle" <jimmyrtle@> wrote:
> >
> > Has anyone tried to measure return loss with a mini circuits directional coupler?
> >
>

# 267. Re: return loss

Yahoo group: hp8924
Date: 2011-05-26 04:23:26 UTC
From: l_digit
Topic: 261  Message: 267

--- In hp8924@yahoogroups.com, "wb9oih" <alw.k9si@...> wrote:
>
> Jimmy,
> I have been using a Mini-Circuits ZFDC-20-5 directional coupler with the hp8924 with great success. This coupler is spected from 0.1 mhz. to 2 ghz. It has 20 db of coupling and averages 30 db of directivity across its range. It is a very useful tool for looking at antennas, cavities, filters, etc.
>
> Mini-Circuits lists the price at $89.95 but I got mine on ebay for less than a quarter of that. YMMV.
>
> Al,
> K9SI
>
>
>
> --- In hp8924@yahoogroups.com, "jimmyrtle" <jimmyrtle@> wrote:
> >
> > Has anyone tried to measure return loss with a mini circuits directional coupler?
> >
>
Ok i got a Mini-Circuits ZFDC-20-5 directional coupler how do hook it up.
OUT=?
CPL=?
IN=?
Thanks Al

# 268. Re: return loss

Yahoo group: hp8924
Date: 2011-05-26 14:13:26 UTC
From: Al Wolfe
Topic: 261  Message: 268

Jimmy,
The first thing to do is to configure the 8924 for "duplex out" and "antenna in"and set up the tracking generator for no offset. To measure return loss hook the "duplex out" on the generator to the "out" connection of the directional coupler. Then hook the "antenna in" port to "couple" of the directional coupler. You can now establish the base line on the spectrum analyzer as this will show infinite SWR or minimum return loss. It should read about 20 db less than what you are generating. Once you've done this connect the load or device under test to the "in" port of the coupler. The space under the base line on the spectrum analyzer is the return loss in negative db. (Note: this may be counter intuitive to some but we're using the directional coupler to measure what's coming back as apposed to what's going out which is what the labels on it are for.)

At least that's how I've done it and it seems right to me. The caveat here is the accuracy of the load in the directional coupler which is an unknown but assumed to be 50 ohms and non-reactive.

There was an article in QST magazine several months ago which referred to this method so it has to be right, eh?

73,
Al, K9SI

> Re: return loss
> Posted by: "l_digit" l_digit@... l_digit
> Date: Wed May 25, 2011 9:23 pm ((PDT))
>
>
>
> --- In hp8924@yahoogroups.com, "wb9oih" <alw.k9si@...> wrote:
>>
>> Jimmy,
>> I have been using a Mini-Circuits ZFDC-20-5 directional coupler with
>> the hp8924 with great success. This coupler is spected from 0.1 mhz. to 2
>> ghz. It has 20 db of coupling and averages 30 db of directivity across
>> its range. It is a very useful tool for looking at antennas, cavities,
>> filters, etc.
>>
>> Mini-Circuits lists the price at $89.95 but I got mine on ebay for
>> less than a quarter of that. YMMV.
>>
>> Al,
>> K9SI
>>
>>

>>
>> --- In hp8924@yahoogroups.com, "jimmyrtle" <jimmyrtle@> wrote:
>> >
>> > Has anyone tried to measure return loss with a mini circuits
>> > directional coupler?
>> >
>>
> Ok i got a Mini-Circuits ZFDC-20-5 directional coupler how do hook it up.
> OUT=?
> CPL=?
> IN=?
> Thanks Al

# 269. Questions

Yahoo group: hp8924
Date: 2011-05-31 00:46:36 UTC
From: EC Welch
Topic: 269  Message: 269

HI,

New to the group. Just bought a HP 8935/Agilent E6380A. How does this compare with the HP8924? My needs were .4 to 1000M, Spectrum Analyzer and Tracking Gen, and 60W dummy load. I know Agilent has a Manual download feature---How do I find it? All questions at this point---maybe I can contribute later.

Regards,

EC

# 270. RE: [hp8924] Questions

Yahoo group: hp8924
Date: 2011-05-31 02:21:41 UTC
From: Mike, KD7MG
Topic: 269  Message: 270

Not sure about the spec comparison with the 8924, but the manuals you're looking for can be found on the right column of THIS <http://www.home.agilent.com/agilent/product.jspx?cc=US&lc=eng&nid=-536900811.536880769&pageMode=PL> page.

Cheers,
Mike

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of EC Welch
Sent: Monday, May 30, 2011 6:47 PM
To: hp8924@yahoogroups.com
Subject: [hp8924] Questions

HI,

New to the group. Just bought a HP 8935/Agilent E6380A. How does this compare with the HP8924? My needs were .4 to 1000M, Spectrum Analyzer and Tracking Gen, and 60W dummy load. I know Agilent has a Manual download feature---How do I find it? All questions at this point---maybe I can contribute later.

Regards,

EC

# 271. newbie question

Yahoo group: hp8924
Date: 2011-06-03 04:34:40 UTC
From: rickc3204
Topic: 271  Message: 271

```
what is a good way to align a duplexer with an 8924c.
thanks
```

# 272. Re: [hp8924] newbie question

Yahoo group: hp8924
Date: 2011-06-03 19:18:14 UTC
From: Frederick Bray
Topic: 271  Message: 272

On 6/2/2011 9:34 PM, rickc3204 wrote:
> what is a good way to align a duplexer with an 8924c.
> thanks
>
While not specific to the HP 8924c, Cushman put out some training manuals that can be found here:

http://www.repeater-builder.com/cushman/cushman-index.html

The manuals are towards the bottom of the page. They are a good general reference for doing things with any service monitor.

You might also do a Google search for your particular duplexer. Sometimes the manufacturer's tuning instructions can be found.

# 273. RE: [hp8924] newbie question

Yahoo group: hp8924
Date: 2011-06-03 20:31:50 UTC
From: Mike, KD7MG
Topic: 271  Message: 273

There are also a few helps specific to the 892x starting on page 222 in this 8920A/B Application Handbook.

http://www.repeater-builder.com/agilent/8920/8920A%20and%20B%20Application%20Handbook%2008920-90126.pdf

Cheers,
Mike

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Frederick Bray
Sent: Friday, June 03, 2011 1:18 PM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] newbie question

On 6/2/2011 9:34 PM, rickc3204 wrote:
> what is a good way to align a duplexer with an 8924c.
> thanks
>
While not specific to the HP 8924c, Cushman put out some training manuals that can be found here:

http://www.repeater-builder.com/cushman/cushman-index.html

The manuals are towards the bottom of the page. They are a good general reference for doing things with any service monitor.

You might also do a Google search for your particular duplexer. Sometimes the manufacturer's tuning instructions can be found.

# 274. Re: newbie question

Yahoo group: hp8924
Date: 2011-06-05 03:03:50 UTC
From: serc1mp@sbcglobal.net
Topic: 271  Message: 274

FYI - From the Repeater-Builder webmaster, concerning links to their various files, etc.

. * * * * * * *

. I'd appreciate it if you dropped a note on that group stating that

recently the repeater-builder group reorganized the test equipment section and all old links are probably bad.

(as you put it) drilling down from our top menu is probably the best way to find something (or using google - personally I put in a re-scan request when I add or change something)..

Mike WA6ILQ

. * * * * * * *

Mike, WA9FDO

# 275. Re: 8924 Power Supply (Green LED problem SOLVED)

Yahoo group: hp8924
Date: 2011-06-10 01:19:13 UTC
From: willcoele@ameritech.net
Topic: 257  Message: 275

I uploaded a file that will help you repair the green LED problem.

Jack WA9FVP
Willco Electronics

--- In hp8924@yahoogroups.com, "Ralph S. Turk" <w7hsg@...> wrote:
>
> Hi All
> Has anyone found a schematic diagram for
> an 8924 Power Supply or any other modules.
>
> I have an 8924 with what I think is a dead PS.
> The little green led light does come on.
> No fan etc.
>
> Ralph, W7HSG
>

# 276. Re: [hp8924] Re: 8924 Power Supply (Green LED problem SOLVED)

Yahoo group: hp8924
Date: 2011-06-10 01:55:32 UTC
From: Ralph S. Turk
Topic: 257  Message: 276

Thanks Jack
Will look at it.
Ralph, W7HSG
----- Original Message -----
From: willcoele@...
To: hp8924@yahoogroups.com
Sent: Thursday, June 9, 2011 6:19:13 PM
Subject: [hp8924] Re: 8924 Power Supply (Green LED problem SOLVED)

I uploaded a file that will help you repair the green LED problem.

Jack WA9FVP
Willco Electronics

--- In hp8924@yahoogroups.com , "Ralph S. Turk" <w7hsg@...> wrote:
>
> Hi All
> Has anyone found a schematic diagram for
> an 8924 Power Supply or any other modules.
>
> I have an 8924 with what I think is a dead PS.
> The little green led light does come on.
> No fan etc.
>
> Ralph, W7HSG
>

# 277. Re: 8924 Power Supply (Green LED problem SOLVED)

Yahoo group: hp8924
Date: 2011-06-10 02:24:16 UTC
From: willcoele@ameritech.net
Topic: 257  Message: 277

I corrected a few typos and reloaded a new file. So if you had problems finding the file, try again.

--- In hp8924@yahoogroups.com, "Ralph S. Turk" <w7hsg@...> wrote:
>
> Thanks Jack
> Will look at it.
> Ralph, W7HSG
> ----- Original Message -----
> From: willcoele@...
> To: hp8924@yahoogroups.com
> Sent: Thursday, June 9, 2011 6:19:13 PM
> Subject: [hp8924] Re: 8924 Power Supply (Green LED problem SOLVED)
>
>
>
>
>
>
> I uploaded a file that will help you repair the green LED problem.
>
> Jack WA9FVP
> Willco Electronics
>
> --- In hp8924@yahoogroups.com , "Ralph S. Turk" <w7hsg@> wrote:
> >
> > Hi All
> > Has anyone found a schematic diagram for
> > an 8924 Power Supply or any other modules.
> >
> > I have an 8924 with what I think is a dead PS.
> > The little green led light does come on.
> > No fan etc.
> >
> > Ralph, W7HSG
> >
>

# 278. New file uploaded to hp8924

Yahoo group: hp8924
Date: 2011-06-10 02:59:30 UTC
From: hp8924@yahoogroups.com
Topic: 31  Message: 278

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hp8924
group.

File : /Repairing the 8924 Power Supply.pdf
Uploaded by : willcoele@... <willcoele@...>
Description :

You can access this file at the URL:
http://groups.yahoo.com/group/hp8924/files/Repairing%20the%208924%20Power%20Supply.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

willcoele@... <willcoele@...>

# 279. New file uploaded to hp8924

Yahoo group: hp8924
Date: 2011-06-10 13:38:49 UTC
From: hp8924@yahoogroups.com
Topic: 31  Message: 279

```
Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hp8924
group.

File : /BUZ80A.pdf
Uploaded by : willcoele@... <willcoele@...>
Description : Q1 (15v STBY Switching Transistor)

You can access this file at the URL:
http://groups.yahoo.com/group/hp8924/files/BUZ80A.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

willcoele@... <willcoele@...>
```

# 280. New file uploaded to hp8924

Yahoo group: hp8924
Date: 2011-06-10 13:43:06 UTC
From: hp8924@yahoogroups.com
Topic: 31  Message: 280

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hp8924
group.

File : /sg1842.pdf
Uploaded by : willcoele@... <willcoele@...>
Description : U1 (15V STBY PWM IC)

You can access this file at the URL:
http://groups.yahoo.com/group/hp8924/files/sg1842.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

willcoele@... <willcoele@...>

# 281. Re: New file uploaded to hp8924

Yahoo group: hp8924
Date: 2011-06-10 16:51:20 UTC
From: willcoele@ameritech.net
Topic: 31  Message: 281

The first file I uploaded (sg1842.pdf) is a "spec" sheet for the SG1843 PWM cintroller IC. On page 14 there's schematic that's similar to the 15v STBY in the 8924 power supply. The boost circuit consist of a 1n3612 and a 10uF, 20v electrolytic. The boost winding on T1 is an isolated winding that's referenced to the AC or "HOT" ground.

The PWM controller sub-board on the 8924 power supply is similar in that, it too is referenced to a "hot" gound. Becareful when working on that part of the circuit. DO NOT touch or connect an oscilloscope ground to any part of that board. The 15v STBY switcher is floating but I measured 160 volts from chassis ground to "Hot" ground on the sub-board. Before doing anything, even when the AC mains are disconnected, make sure that there's no voltage on the PWM board. There's a surface mounted, electrolytic capacitor just above C5. You can measure the voltage with a DVM from chassis ground to either side of the capacitor.

The second file are the specs for the BUZ80A switching transistor (Q1).

--- In hp8924@yahoogroups.com, hp8924@yahoogroups.com wrote:
>
>
> Hello,
>
> This email message is a notification to let you know that
> a file has been uploaded to the Files area of the hp8924
> group.
>
> File : /sg1842.pdf
> Uploaded by : willcoele@... <willcoele@...>
> Description : U1 (15V STBY PWM IC)
>
> You can access this file at the URL:
> http://groups.yahoo.com/group/hp8924/files/sg1842.pdf
>
> To learn more about file sharing for your group, please visit:
> http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
> Regards,
>
> willcoele@... <willcoele@...>
>

# 282. Is anybody out there??

Yahoo group: hp8924
Date: 2011-06-14 03:08:38 UTC
From: willcoele@ameritech.net
Topic: 282  Message: 282

Compaired to other Yahoo groups, there appears to be a lack of postings here. Where is everybody?

# 283. Re: Is anybody out there??

Yahoo group: hp8924
Date: 2011-06-14 04:04:23 UTC
From: Trayer
Topic: 282  Message: 283

We're here, just absorbing the info. I, for one, never received an answer as to why I don't get any demod audio from the speaker, except service beeps from my 8924....

# 284. Re: [hp8924] Re: Is anybody out there??

Yahoo group: hp8924
Date: 2011-06-14 04:06:00 UTC
From: Josh Kittle
Topic: 282  Message: 284

I'm here too. Thinking about a cheap way to get a mic on my 8924c.... I've seen posts about what connector to buy - what have others done? I haven't seen any posts with a follow up of 'this is what i did, and loved it'.

Josh

On Tue, Jun 14, 2011 at 12:04 AM, Trayer <wqes485@...> wrote:

>
>
> We're here, just absorbing the info. I, for one, never received an answer
> as to why I don't get any demod audio from the speaker, except service beeps
> from my 8924....
>
>

# 285. Re: Is anybody out there??

Yahoo group: hp8924
Date: 2011-06-14 14:11:29 UTC
From: willcoele@ameritech.net
Topic: 282  Message: 285

I use a red Moto mic shell with a new cord and mic element. I also used a new plug from Mouser that you'll find in previous threads. The element is sold on Ebay as a replacement for the Astatic D104 mic and works great on the 8924. Mic cords can be fount at www.thomasdistributing.com

--- In hp8924@yahoogroups.com, Josh Kittle <josh.kittle@...> wrote:
>
> I'm here too. Thinking about a cheap way to get a mic on my 8924c.... I've
> seen posts about what connector to buy - what have others done? I haven't
> seen any posts with a follow up of 'this is what i did, and loved it'.
>
> Josh
>
> On Tue, Jun 14, 2011 at 12:04 AM, Trayer <wqes485@...> wrote:
>
> >
> >
> > We're here, just absorbing the info. I, for one, never received an answer
> > as to why I don't get any demod audio from the speaker, except service beeps
> > from my 8924....
> >
> >
>

# 286. Re: Is anybody out there??

Yahoo group: hp8924
Date: 2011-06-14 14:21:32 UTC
From: willcoele@ameritech.net
Topic: 282  Message: 286

In the AF analyzer screen (second colum, forth row) the "Speaker Vol" should be set to "Pot"

--- In hp8924@yahoogroups.com, Trayer <wqes485@...> wrote:
>
> We're here, just absorbing the info. I, for one, never received an answer as to why I don't get any demod audio from the speaker, except service beeps from my 8924....
>

# 287. Re: [hp8924] Re: Is anybody out there??

Yahoo group: hp8924
Date: 2011-06-14 15:24:31 UTC
From: Paul Holm
Topic: 282  Message: 287

If you're in S.A. mode and have the scan width set wider than a certain amount, I believe that is also one reason you might not get speaker audio.

73 Paul - KC0HST

----- Original Message -----
From: "Trayer"
Sent: Monday, June 13, 2011 11:04 PM
Subject: [hp8924] Re: Is anybody out there??

> why I don't get any demod audio from the speaker, except service beeps
> from my 8924....
>

# 288. Re: [hp8924] Re: Is anybody out there??

Yahoo group: hp8924
Date: 2011-06-14 16:35:08 UTC
From: Trayer Rende
Topic: 282  Message: 288

The volume selection is always on "pot" and the span in SA is 2 khz. I've tried almost everything. The squelch pot gates the Frequency error in the AF analyzer screen, so squelch pot works... the speaker works, because it beeps at an invalid keystroke and at startup, absolutely no Demod.

# 289. Re: Is anybody out there??

Yahoo group: hp8924
Date: 2011-06-15 02:02:51 UTC
From: willcoele@ameritech.net
Topic: 282  Message: 289

I think it's a broken connection between the front panel and the A36 module. the beep is fed from the A16 controller module via an attenuator on the A36 module. Look on page 448 of the 8924C/E Assembly Level Repair manual (08924-90061). The block diagram clearly shows the connection from A36 to the pot. I removed the front panel on my 8924C a year ago and I remember that some buttons didn't work after I remounted the panel. I found that a connector on the front panel wasn't fully seated.

--- In hp8924@yahoogroups.com, Trayer Rende <wqes485@...> wrote:
>
> The volume selection is always on "pot" and the span in SA is 2 khz. I've tried almost everything. The squelch pot gates the Frequency error in the AF analyzer screen, so squelch pot works... the speaker works, because it beeps at an invalid keystroke and at startup, absolutely no Demod.
>

# 290. Re: Is anybody out there??

Yahoo group: hp8924
Date: 2011-06-15 03:21:53 UTC
From: Trayer Rende
Topic: 282  Message: 290

That is a major help, and a kick in the right direction. Thank you. I will let the group know my findings.

# 291. Re: Is anybody out there??

Yahoo group: hp8924
Date: 2011-06-15 19:18:02 UTC
From: willcoele@ameritech.net
Topic: 282  Message: 291

You can also check the "Audio Monitor" on the rear panel. If your getting it there then the problem is between the "Speaker De-emph and ALC" block and the audio output IC. The block diagram also show the pin numbers for connector J17. If you can probe the motherboard you can check for audio on the pins but without an extender board, I'm sure that's next to impossible to do.

--- In hp8924@yahoogroups.com, Trayer Rende <wqes485@...> wrote:
>
> That is a major help, and a kick in the right direction. Thank you. I will let the group know my findings.
>

# 292. Re: [hp8924] Re: Is anybody out there??

Yahoo group: hp8924
Date: 2011-06-15 21:55:28 UTC
From: Ralph S. Turk
Topic: 282  Message: 292

Will
I saw your questions re audio out to the speaker.
As others have mentioned the Spectrum Analyzer must be set narrow..
One other thing has to do with the "Audio Analyzer" screen
Make sure after the 8924 boots you go the the Audio Analyzer
screen.
First entry is "AF analyzer In"
you MUST have it set for "FM Demod"
Normal boot is "Audio In"
Ralph, W7HSG

----- Original Message -----
From: willcoele@...
To: hp8924@yahoogroups.com
Sent: Wednesday, June 15, 2011 12:18:02 PM
Subject: [hp8924] Re: Is anybody out there??

You can also check the "Audio Monitor" on the rear panel. If your getting it there then the problem is between the "Speaker De-emph and ALC" block and the audio output IC. The block diagram also show the pin numbers for connector J17. If you can probe the motherboard you can check for audio on the pins but without an extender board, I'm sure that's next to impossible to do.

--- In hp8924@yahoogroups.com , Trayer Rende <wqes485@...> wrote:
>
> That is a major help, and a kick in the right direction. Thank you. I will let the group know my findings.
>

# 293. Re: [hp8924] Re: Is anybody out there??

Yahoo group: hp8924
Date: 2011-06-15 23:49:26 UTC
From: Trayer Rende
Topic: 282  Message: 293

Ok, Here's where I'm at. I have no audio from the aud monitor out in the rear. The SpecAn is set at .2mhz span, AF analyzer is set to FM demod. Volume is set to pot in the config screen. I can see the FM demod on the Oscope. One thing that had me wondering, When my 8924 boots, It starts on the CDMA call control screen, and the Call Status is -Transmitting- , average power of 17.7dbm.Is the CDMA side of the monitor interfering with the analog side? I'm sure it needs a new Lithium, because I cant seem to make it save any start up presets. Also, is it possible to make a preset to silence the monitor?
Trayer KB3MIJ
--- On Wed, 6/15/11, Ralph S. Turk <w7hsg@comcast.net> wrote:

From: Ralph S. Turk <w7hsg@...>
Subject: Re: [hp8924] Re: Is anybody out there??
To: hp8924@yahoogroups.com
Date: Wednesday, June 15, 2011, 5:55 PM

Will
I saw your questions re audio out to the speaker.
As others have mentioned the Spectrum Analyzer must be set narrow..
One other thing has to do with the "Audio Analyzer" screen
Make sure after the 8924 boots you go the the Audio Analyzer
screen.
First entry is "AF analyzer In"
you MUST have it set for "FM Demod"
Normal boot is "Audio In"
Ralph, W7HSG

----- Original Message -----
From: willcoele@...
To: hp8924@yahoogroups.com
Sent: Wednesday, June 15, 2011 12:18:02 PM
Subject: [hp8924] Re: Is anybody out there??

You can also check the "Audio Monitor" on the rear panel. If your getting it there then the problem is between the "Speaker De-emph and ALC" block and the audio output IC. The block diagram also show the pin numbers for connector J17. If you can probe the motherboard you can check for audio on the pins but without an extender board, I'm sure that's next to impossible to do.

--- In hp8924@yahoogroups.com, Trayer Rende <wqes485@...> wrote:

>

> That is a major help, and a kick in the right direction. Thank you. I will let the group know my findings.

>

# 294. 8924C Audio Demod Problems.

Yahoo group: hp8924
Date: 2011-06-16 03:10:35 UTC
From: willcoele@ameritech.net
Topic: 282  Message: 294

Ralph, I changed the Subject of this thread to reflect that actual problem.

I setup an RF loop back on the Duplex screen and connected a BNC cable from the Duplex Out jack the the Antenna In jack. Fet the RF generator for FM with 4KHz od deviation. The RF analyzer is set to the same frequency, FM demod and Antenna input.

This ia a copy and past from the 8924 User's Guide.

---
AUD MONITOR OUTPUT
The audio monitor output provides an external output from various tap points in
the AF Analyzer.
Operating Considerations
☐ BNC
☐ Output impedance is < 1 kohm
☐ The Scope To field in the analog AF ANALYZER screen determines the source of this signal.
☐ The level is not affected by the front-panel VOLUME knob.
---

I trust that the "Scope To" field is set to "Filters". That's how mine is set. I'm seeing the demod on my bench oscilloscope. When I select input, the level drops and it appears that "AUD MONITOR OUTPUT" is connected directly to the "DEMOD AUD" line as shown in the block diagram on page 448. "DEMOD AUD" comes from the RF Analyzer block diagram. The other two choices are "De-Emp" and "Notch". The "De-Emp" level is normal until "750 us" is selected in "De-Emphasis" field on the "AF analyzer" Screen. Then the level from the "AUD MONITOR OUTPUT" jack drops.

Hopefully you see the same thing on yours.

Jack WA9FVP
Willco Electronics

# 295. Re: 8924C Audio Demod Problems.

Yahoo group: hp8924
Date: 2011-06-16 03:35:53 UTC
From: willcoele@ameritech.net
Topic: 282  Message: 295

Actually my last thread was for Trayer KB3MIJ

--- In hp8924@yahoogroups.com, "willcoele@..." <willcoele@...> wrote:
>
>
> Ralph, I changed the Subject of this thread to reflect that actual problem.
>
> I setup an RF loop back on the Duplex screen and connected a BNC cable from the Duplex Out jack the the Antenna In jack. Fet the RF generator for FM with 4KHz od deviation. The RF analyzer is set to the same frequency, FM demod and Antenna input.
>
> This ia a copy and past from the 8924 User's Guide.
>
> ----------
> AUD MONITOR OUTPUT
> The audio monitor output provides an external output from various tap points in
> the AF Analyzer.
> Operating Considerations
> ☐ BNC
> ☐ Output impedance is < 1 kohm
> ☐ The Scope To field in the analog AF ANALYZER screen determines the source of this signal.
> ☐ The level is not affected by the front-panel VOLUME knob.
> ----------
>
> I trust that the "Scope To" field is set to "Filters". That's how mine is set. I'm seeing the demod on my bench oscilloscope. When I select input, the level drops and it appears that "AUD MONITOR OUTPUT" is connected directly to the "DEMOD AUD" line as shown in the block diagram on page 448. "DEMOD AUD" comes from the RF Analyzer block diagram. The other two choices are "De-Emp" and "Notch". The "De-Emp" level is normal until "750 us" is selected in "De-Emphasis" field on the "AF analyzer" Screen. Then the level from the "AUD MONITOR OUTPUT" jack drops.
>
> Hopefully you see the same thing on yours.
>
>
> Jack WA9FVP
> Willco Electronics
>

# 296. Re: 8924C Audio Demod Problems.

Yahoo group: hp8924
Date: 2011-06-16 13:46:13 UTC
From: willcoele@ameritech.net
Topic: 282  Message: 296

I need to run a spell checker!!! I also made a few changes to my description.

I setup an RF loop back on the Duplex screen and connected a BNC cable from the Duplex Out jack the the Antenna In jack. I set the RF generator for FM modulation with 4KHz of deviation. The RF analyzer is set to the same frequency, FM demod and Antenna input.

This ia a copy and past from the 8924 User's Guide.

---
AUD MONITOR OUTPUT
The audio monitor output provides an external output from various tap points in
the AF Analyzer.
Operating Considerations
☐ BNC
☐ Output impedance is < 1 kohm
☐ The Scope To field in the analog AF ANALYZER screen determines the source of this signal.
☐ The level is not affected by the front-panel VOLUME knob.
---

I trust that the "Scope To" field on your 8924 is set to "Filters". That's how mine is set. I'm seeing the demodulation on my bench oscilloscope from the "AUD Monitor Output". When I select "Input", the level drops and it appears that "AUD MONITOR OUTPUT" is connected directly to the "DEMOD AUD" line as shown in the block diagram on page 448 of the 8924C/E Assembly. The same signal is fed to the "Speaker De-Emp and ALC" block and then to the speaker amplifier via the volume control. "DEMOD AUD" comes from the RF Analyzer block diagram on th page 445. The other two choices are "De-Emp" and "Notch". The "De-Emp" level is normal until "750 us" is selected in "De-Emphasis" field on the "AF analyzer" Screen. Then the level from the "AUD MONITOR OUTPUT" jack drops. Notch is used by the distortion analyzer section and the 1000 Hz tone is filtered and what's left is the noise and distortion. The noise level measured by my HP 400FL is .825mv. If the AF Generator is +/- 300Hz, then the signal is above or below the notch and you should measure about .1v RMS when the FM deviation is set to 3Khz.

Hopefully you see the same thing on yours.

Jack WA9FVP
Willco Electronics

# 297. 8924c power calibration fails

Yahoo group: hp8924
Date: 2011-06-16 21:09:59 UTC
From: jyelmgren
Topic: 297  Message: 297

having an issue on my 8924c
Looks like it is reading the input power low ...reads 4W instead of 5w for example.
Tried to run the power calibration routine and it fails either right away or about 50% through.

Power up test run clean and ran some of the other diagnostics without any failures.

Seems like it always has some input level on the RF in port as well if I just loop the duplex into the RF IN wiht a 0Mz offset ..like around -18dbm .
something flakey ( realy )on the RF input assembly ?

# 298. Re: [hp8924] Re: 8924C Audio Demod Problems.

Yahoo group: hp8924
Date: 2011-06-16 23:05:04 UTC
From: Trayer Rende
Topic: 282  Message: 298

Jack,

I see the Demodulation on my bench Oscope as well. I followed what you did, I made a loopback in duplex, and ran the aud monitor out to my Oscope.However, Whenever I selected DeEmph on the AF analyzer screen, My -aud monitor out- level was not affected. When i measured the noise level outside of the notch, it was about .830mv.  So the monitor generates fine,receives fine, de-mods fine, and routes audio half fine. As well, Demodulation makes it back to the monitor out port. So my issue is either in the -de-emph and alc- block, or possibly in the speaker amplifier block, or in-between. Unfortunately i don't have an extender card to probe cards. I tried to reseat all the internal cards, but did not mess with the front cover. From here, I need to study the block schematic as well as which corresponding internal card to probe. Thanks for getting me this far.

--- On Thu, 6/16/11, willcoele@... <willcoele@...> wrote:

From: willcoele@... <willcoele@...>
Subject: [hp8924] Re: 8924C Audio Demod Problems.
To: hp8924@yahoogroups.com
Date: Thursday, June 16, 2011, 9:46 AM

I need to run a spell checker!!! I also made a few changes to my description.

I setup an RF loop back on the Duplex screen and connected a BNC cable from the Duplex Out jack the the Antenna In jack. I set the RF generator for FM modulation with 4KHz of deviation. The RF analyzer is set to the same frequency, FM demod and Antenna input.

This ia a copy and past from the 8924 User's Guide.

---

AUD MONITOR OUTPUT

The audio monitor output provides an external output from various tap points in

the AF Analyzer.

Operating Considerations

• BNC

• Output impedance is < 1 kohm

• The Scope To field in the analog AF ANALYZER screen determines the source of this signal.

• The level is not affected by the front-panel VOLUME knob.

---

I trust that the "Scope To" field on your 8924 is set to "Filters". That's how mine is set. I'm seeing the demodulation on my bench oscilloscope from the "AUD Monitor Output". When I select "Input", the level drops and it appears that "AUD MONITOR OUTPUT" is connected directly to the "DEMOD AUD" line as shown in the block diagram on page 448 of the 8924C/E Assembly. The same signal is fed to the "Speaker De-Emp and ALC" block and then to the speaker amplifier via the volume control. "DEMOD AUD" comes from the RF Analyzer block diagram on th page 445. The other two choices are "De-Emp" and "Notch". The "De-Emp" level is normal until "750 us" is selected in "De-Emphasis" field on the "AF analyzer" Screen. Then the level from the "AUD MONITOR OUTPUT" jack drops. Notch is used by the distortion analyzer section and the 1000 Hz tone is filtered and what's left is the noise and distortion. The noise level measured by my HP 400FL is .825mv. If the AF Generator is +/- 300Hz, then the signal is above or below the notch and you should measure about .1v RMS when the FM deviation is set to 3Khz.

Hopefully you see the same thing on yours.

Jack WA9FVP

Willco Electronics

# 299. Re: 8924c power calibration fails

Yahoo group: hp8924
Date: 2011-06-16 23:42:10 UTC
From: willcoele@ameritech.net
Topic: 297  Message: 299

I had the same problem with mine. I removed the "A5" RF casting and the 30 some screws on the top cover. There were four or five op-amps inside and one of them was defective. I don't recall the part number but I think it was an Analog Devices part. I didn't have a camera at the time and I didn't document the repair. This happened before I joined the group; otherwise I would have created a document and upload it to the files section. The opamps were close to the front of the casting and you can even trace where the RF enters and where the op-amps monitor the recified RF power. There's also a bank of terminating resistors that equal 50 ohms.

I remember feeding the cabling to the CRT such that I was able to place it on top of the 8924. I trouble shot the "A5" module while it was connected and fully operational with the top cover removed.

I discovered the defective part by measuring the voltage on all 4 outputs of the op-amp. One output was stuck either to the positive or negative rail but it doesn't matter which way. I checked the plus and minus supplies to the op-amp and determined that the output voltage of each section should be somewhere between -VCC and +VCC. I replaced it with a T.I., TLO64

The power measurement worked perfectly and I didn't even run the calibration.

The 8924C/E assembly manual was very helpful

--- In hp8924@yahoogroups.com, "jyelmgren" <jyelmgren@...> wrote:
>
> having an issue on my 8924c
> Looks like it is reading the input power low ...reads 4W instead of 5w for example.
> Tried to run the power calibration routine and it fails either right away or about 50% through.
>
> Power up test run clean and ran some of the other diagnostics without any failures.
>
> Seems like it always has some input level on the RF in port as well if I just loop the duplex into the RF IN wiht a 0Mz offset ..like around -18dbm .
> something flakey ( realy )on the RF input assembly ?
>

# 300. Re: 8924C Audio Demod Problems.

Yahoo group: hp8924
Date: 2011-06-16 23:51:38 UTC
From: willcoele@ameritech.net
Topic: 282  Message: 300

Trayer,

Keep in mind that if you can hear the beep, the speaker amplifier is OK.

Jack WA9FVP
Willco Electronics

--- In hp8924@yahoogroups.com, Trayer Rende <wqes485@...> wrote:
>
> Jack,
> Â
> I see the Demodulation on my bench Oscope as well. I followed what you did, I made a loopback in duplex, and ran the aud monitor out to my Oscope.However, Whenever I selected DeEmph on the AF analyzer screen, My -aud monitor out- level was not affected. When i measured the noise level outside of the notch, it was about .830mv.Â  So the monitor generates fine,receives fine, de-mods fine, and routes audio half fine. As well, Demodulation makes it back to the monitor out port. So my issue is either in the -de-emph and alc- block, or possibly in the speaker amplifier block, or in-between. Unfortunately i don't have an extender card to probe cards. I tried to reseat all the internal cards, but did not mess with the front cover. From here, I need to study the block schematic as well as which corresponding internal card to probe. Thanks for getting me this far.
>
> --- On Thu, 6/16/11, willcoele@... <willcoele@...> wrote:
>

# 301. 8924C Green LED Problem !SOLVED!

Yahoo group: hp8924
Date: 2011-06-21 04:15:14 UTC
From: willcoele@ameritech.net
Topic: 301  Message: 301

Mostley because of safety issues, I keep updating the file "Repairing the 8924 Power Supply". Another revised copy is up loaded and remember, "Safety First".

# 302. Why! Why! Why!

Yahoo group: hp8924
Date: 2011-07-02 01:53:25 UTC
From: willcoele@ameritech.net
Topic: 302  Message: 302

This web page includes schematics and PCB, Layouts, Firmware and manuals for the 871X Network Analyzer.

http://na.tm.agilent.com/871x/

Why doesn't Agilent do the same for the 8924? This was a cut and past from the page.

---

Welcome to the Agilent Technologies 871x Series Service & Support web site. This site is dedicated to supplying our customers and hobbyists with some support information even though the entire 871x series is now out of support life. Since Agilent no longer supports this product, questions about it may be better answered via the Yahoo hobbyist support group

---
Jack WA9FVP
Willco Electronics

# 303. Fwd: [Repeater-Builder] Cart Solution For Larger HP Service Monitors

Yahoo group: hp8924
Date: 2011-07-02 16:22:51 UTC
From: Ralph S. Turk
Topic: 303  Message: 303

I sent this to repeater-builders.
Though some might be interested here
Ralph

----- Forwarded Message -----
From: "Ralph S. Turk" <w7hsg@...t>
To: Repeater-Builder@yahoogroups.com
Sent: Saturday, July 2, 2011 9:20:36 AM
Subject: Re: [Repeater-Builder] Cart Solution For Larger HP Service Monitors

Hi All
I built my carts out of old Grocery Store carts.
I cut off the front so I could have access to the second shelf
I cut a piece of 3/4 inch plywood to fit the trapezoid shape to form
a shelf for the top. I tilted the shelf to raise the front of the unit.
The shelf sits on 1 x 1 in Al angle that is bolted to the side and rear
I added a front reinforcement from a piece of 2 x 2.
I mounted a outlet strip to the rear of the cart.
I also added a slide out shelf just under the equipment shelf to hold small cavities etc
while tuning.
I built one for my 8924 and another for my 8935. They work great.
What I need to do is add a shelf above the 8924 cart and the 8935 cart
for the 15" B & W monitors that I use to make it easier to read when sweeping.
Ralph, W7HSG

----- Forwarded Message -----
From: "Dawn" <seapeace@...>
To: Repeater-Builder@yahoogroups.com
Sent: Friday, July 1, 2011 10:18:08 PM
Subject: [Repeater-Builder] Cart Solution For Larger HP Service Monitors

I've never owned any service monitors over the years that didn't either fit on my service bench 17" risers, 30" standard bench tops, or on a scope cart. Recently I purchased one of the HP 89xx series monitors and I'm trying to find a workable solution to accommodate this behemoth in it's full 24" in the shop. Hangover on the rear isn't workable, not is a 6" front workspace. The best thing I can see is a suitable cart rather then building an extended bench. Perhaps there was even one made for this series or something that someone has found such as a food-service or lab cart that works ideally with these monitors.

Any ideas?

# 304. Re: Fwd: [Repeater-Builder] Cart Solution For Larger HP Service Monitors

Yahoo group: hp8924
Date: 2011-07-02 19:53:40 UTC
From: willcoele@ameritech.net
Topic: 303  Message: 304

I built a cart for my Agilent oscilloscope from an old typwriter stand. It would probably hold my 8924 but it would be too top heavy.

--- In hp8924@yahoogroups.com, "Ralph S. Turk" <w7hsg@...> wrote:
>
> I sent this to repeater-builders.
> Though some might be interested here
> Ralph
>
> ----- Forwarded Message -----
> From: "Ralph S. Turk" <w7hsg@...>
> To: Repeater-Builder@yahoogroups.com
> Sent: Saturday, July 2, 2011 9:20:36 AM
> Subject: Re: [Repeater-Builder] Cart Solution For Larger HP Service Monitors
>
>

# 305. Re: [hp8924] Fwd: [Repeater-Builder] Cart Solution For Larger HP Service Monitors

Yahoo group: hp8924
Date: 2011-07-02 23:24:49 UTC
From: Tony Brignole
Topic: 303  Message: 305

I use an audio visual cart purchased from a local high school surplus for $15.

It is a large rectangular cart with a shelf on bottom and one in middle. I have printer on bottom and drawer cabinet with accessories on middle shelf. It has large casters and rolls easily. It also has surge protector power strip on back.

I have seen tons of these at school surplus auctions. I have 4 in my shop with various types of equipment.

----- Original Message -----
From: Ralph S. Turk
To: hp8924
Sent: Saturday, July 02, 2011 11:22 AM
Subject: [hp8924] Fwd: [Repeater-Builder] Cart Solution For Larger HP Service Monitors

I sent this to repeater-builders.
Though some might be interested here
Ralph

---
From: "Ralph S. Turk" <w7hsg@...>
To: Repeater-Builder@yahoogroups.com
Sent: Saturday, July 2, 2011 9:20:36 AM
Subject: Re: [Repeater-Builder] Cart Solution For Larger HP Service Monitors

Hi All
I built my carts out of old Grocery Store carts.
I cut off the front so I could have access to the second shelf
I cut a piece of 3/4 inch plywood to fit the trapezoid shape to form
a shelf for the top. I tilted the shelf to raise the front of the unit.
The shelf sits on 1 x 1 in Al angle that is bolted to the side and rear
I added a front reinforcement from a piece of 2 x 2.
I mounted a outlet strip to the rear of the cart.
I also added a slide out shelf just under the equipment shelf to hold small cavities etc while tuning.
I built one for my 8924 and another for my 8935. They work great.
What I need to do is add a shelf above the 8924 cart and the 8935 cart
for the 15" B & W monitors that I use to make it easier to read when sweeping.
Ralph, W7HSG

---
From: "Dawn" <seapeace@...>
To: Repeater-Builder@yahoogroups.com
Sent: Friday, July 1, 2011 10:18:08 PM
Subject: [Repeater-Builder] Cart Solution For Larger HP Service Monitors

I've never owned any service monitors over the years that didn't either fit on my service bench 17" risers, 30" standard bench tops, or on a scope cart. Recently I purchased one of the HP 89xx series monitors and I'm trying to find a workable solution to accommodate this behemoth in it's full 24" in the shop. Hangover on the rear isn't workable, not is a 6" front workspace. The best thing I can see is a suitable cart rather then building an extended bench. Perhaps there was even one made for this series or something that someone has found such as a food-service or lab cart that works ideally with these monitors.

Any ideas?

# 306. Re: Video Monitor

Yahoo group: hp8924
Date: 2011-07-29 15:23:35 UTC
From: tireless_2000
Topic: 129  Message: 306

So, has anyone found a converter that works? I'm getting to old to see the small screen anymore. :(

Bob

--- In hp8924@yahoogroups.com, "WA9FVP" <willcoele@...> wrote:
>
> Check out the composite converters on this web page.
> I'm sure something will work.
>
> http://www.pronto.com/shop/composite-converter
>

# 307. Re: [hp8924] Re: Video Monitor

Yahoo group: hp8924
Date: 2011-07-29 15:46:03 UTC
From: Ralph S. Turk
Topic: 129  Message: 307

I modified the horizontal and verticle of a old 15" B&W monitor.
Works fine.
Ralph,W7HSG

----- Original Message -----
From: "tireless_2000" <tireless_2000@...>
To: hp8924@yahoogroups.com
Sent: Friday, July 29, 2011 8:23:35 AM
Subject: [hp8924] Re: Video Monitor

So, has anyone found a converter that works? I'm getting to old to see the small screen anymore. :(

Bob

--- In hp8924@yahoogroups.com , "WA9FVP" <willcoele@...> wrote:
>
> Check out the composite converters on this web page.
> I'm sure something will work.
>
> http://www.pronto.com/shop/composite-converter
>

# 308. Re: [hp8924] Re: Video Monitor

Yahoo group: hp8924
Date: 2011-07-29 16:20:51 UTC
From: Robert Atkinson
Topic: 129  Message: 308

I've used an old Extron (RGB 109 or 118 if IRCC) standards converter originally intended to drive analog CRT projection TV's. Picked up on eBay for under $25, but some sellers still want too much for them. It feed the composite input on my 21" Dell LCD PC monitor. Great for just abount anything including CGA ond old Mac stuff.
I can dig it out and set up again if anyone wands specific info.

Robert G8RPI.

--- On Fri, 29/7/11, Ralph S. Turk <w7hsg@...> wrote:

From: Ralph S. Turk <w7hsg@...>
Subject: Re: [hp8924] Re: Video Monitor
To: hp8924@yahoogroups.com
Date: Friday, 29 July, 2011, 16:46

I modified the horizontal and verticle of a old 15" B&W monitor.
Works fine.
Ralph,W7HSG

From: "tireless_2000" <tireless_2000@...>
To: hp8924@yahoogroups.com
Sent: Friday, July 29, 2011 8:23:35 AM
Subject: [hp8924] Re: Video Monitor

So, has anyone found a converter that works? I'm getting to old to see the small screen anymore. :(

Bob

--- In hp8924@yahoogroups.com, "WA9FVP" <willcoele@...> wrote:

>

> Check out the composite converters on this web page.

> I'm sure something will work.

>

> http://www.pronto.com/shop/composite-converter

>

# 309. Re: [hp8924] Re: Video Monitor

Yahoo group: hp8924
Date: 2011-07-29 18:14:47 UTC
From: Ralph S. Turk
Topic: 129  Message: 309

I would like the information.
Ralph,W7HSG

----- Original Message -----
From: "Robert Atkinson" <robert8rpi@...>
To: hp8924@yahoogroups.com
Sent: Friday, July 29, 2011 9:20:51 AM
Subject: Re: [hp8924] Re: Video Monitor

I've used an old Extron (RGB 109 or 118 if IRCC) standards converter originally intended to drive analog CRT projection TV's. Picked up on eBay for under $25, but some sellers still want too much for them. It feed the composite input on my 21" Dell LCD PC monitor. Great for just abount anything including CGA ond old Mac stuff.
I can dig it out and set up again if anyone wands specific info.

Robert G8RPI.

--- On Fri, 29/7/11, Ralph S. Turk <w7hsg@...> wrote:

From: Ralph S. Turk <w7hsg@comcast.net>
Subject: Re: [hp8924] Re: Video Monitor
To: hp8924@...m
Date: Friday, 29 July, 2011, 16:46

I modified the horizontal and verticle of a old 15" B&W monitor.
Works fine.
Ralph,W7HSG

From: "tireless_2000" <tireless_2000@...>
To: hp8924@yahoogroups.com
Sent: Friday, July 29, 2011 8:23:35 AM
Subject: [hp8924] Re: Video Monitor

So, has anyone found a converter that works? I'm getting to old to see the small screen anymore. :(

Bob

--- In hp8924@yahoogroups.com , "WA9FVP" <willcoele@...> wrote:
>
> Check out the composite converters on this web page.
> I'm sure something will work.
>
> http://www.pronto.com/shop/composite-converter
>

# 310. Re: [hp8924] Re: Video Monitor

Yahoo group: hp8924
Date: 2011-07-29 18:19:39 UTC
From: Brian Kassa
Topic: 129  Message: 310

Me Too. I looked at the devices available on Ebay and I was unsure of how you might have connected it.

Brian

On Fri, Jul 29, 2011 at 11:14 AM, Ralph S. Turk <w7hsg@...> wrote:

> **
>
>
> I would like the information.
> Ralph,W7HSG
>
> ----------
> *From: *"Robert Atkinson" <robert8rpi@...>
> *To: *hp8924@yahoogroups.com
> *Sent: *Friday, July 29, 2011 9:20:51 AM
>
> *Subject: *Re: [hp8924] Re: Video Monitor
>
>
>
> I've used an old Extron (RGB 109 or 118 if IRCC) standards converter
> originally intended to drive analog CRT projection TV's. Picked up on eBay
> for under $25, but some sellers still want too much for them. It feed the
> composite input on my 21" Dell LCD PC monitor. Great for just abount
> anything including CGA ond old Mac stuff.
> I can dig it out and set up again if anyone wands specific info.
>
> Robert G8RPI.
>
> --- On *Fri, 29/7/11, Ralph S. Turk <w7hsg@...>* wrote:
>
>
> From: Ralph S. Turk <w7hsg@...>
> Subject: Re: [hp8924] Re: Video Monitor
> To: hp8924@yahoogroups.com
> Date: Friday, 29 July, 2011, 16:46
>
>
>
> I modified the horizontal and verticle of a old 15" B&W monitor.
> Works fine.
> Ralph,W7HSG
>
> ----------

> *From: *"tireless_2000" <tireless_2000@...>
> *To: *hp8924@yahoogroups.com
> *Sent: *Friday, July 29, 2011 8:23:35 AM
> *Subject: *[hp8924] Re: Video Monitor
>
>
>
> So, has anyone found a converter that works? I'm getting to old to see the
> small screen anymore. :(
>
> Bob
>
> --- In hp8924@yahoogroups.com, "WA9FVP" <willcoele@...> wrote:
> >
> > Check out the composite converters on this web page.
> > I'm sure something will work.
> >
> > http://www.pronto.com/shop/composite-converter
> >
>
>
>

# 311. Re: [hp8924] Re: Video Monitor

Yahoo group: hp8924
Date: 2011-07-29 18:26:31 UTC
From: Tony Brignole
Topic: 129  Message: 311

I would also be interested.

As I remember the 8924 output is composite so would this would be a composite to VGA adapter??

----- Original Message -----
From: Robert Atkinson
To: hp8924@yahoogroups.com
Sent: Friday, July 29, 2011 11:20 AM
Subject: Re: [hp8924] Re: Video Monitor

I've used an old Extron (RGB 109 or 118 if IRCC) standards converter originally intended to drive analog CRT projection TV's. Picked up on eBay for under $25, but some sellers still want too much for them. It feed the composite input on my 21" Dell LCD PC monitor. Great for just abount anything including CGA ond old Mac stuff.
I can dig it out and set up again if anyone wands specific info.

Robert G8RPI.

--- On Fri, 29/7/11, Ralph S. Turk <w7hsg@...> wrote:

From: Ralph S. Turk <w7hsg@...>
Subject: Re: [hp8924] Re: Video Monitor
To: hp8924@yahoogroups.com
Date: Friday, 29 July, 2011, 16:46

I modified the horizontal and verticle of a old 15" B&W monitor.
Works fine.
Ralph,W7HSG

---
From: "tireless_2000" <tireless_2000@...>
To: hp8924@yahoogroups.com
Sent: Friday, July 29, 2011 8:23:35 AM
Subject: [hp8924] Re: Video Monitor

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Bob

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>
> Check out the composite converters on this web page.
> I'm sure something will work.
>
> http://www.pronto.com/shop/composite-converter
>

# 312. Re: [hp8924] Re: Video Monitor

Yahoo group: hp8924
Date: 2011-07-29 18:42:40 UTC
From: Bob S
Topic: 129  Message: 312

Robert, I would be interested in learning how this works.

Thanks,

Bob

--- On Fri, 7/29/11, Robert Atkinson <robert8rpi@...> wrote:

From: Robert Atkinson <robert8rpi@...>
Subject: Re: [hp8924] Re: Video Monitor
To: hp8924@yahoogroups.com
Date: Friday, July 29, 2011, 12:20 PM

I've used an old Extron (RGB 109 or 118 if IRCC) standards converter originally intended to drive analog CRT projection TV's. Picked up on eBay for under $25, but some sellers still want too much for them. It feed the composite input on my 21" Dell LCD PC monitor. Great for just abount anything including CGA ond old Mac stuff.
I can dig it out and set up again if anyone wands specific info.

Robert G8RPI.

--- On Fri, 29/7/11, Ralph S. Turk <w7hsg@...> wrote:

From: Ralph S. Turk <w7hsg@...>
Subject: Re: [hp8924] Re: Video Monitor
To: hp8924@yahoogroups.com
Date: Friday, 29 July, 2011, 16:46

I modified the horizontal and verticle of a old 15" B&W monitor.
Works fine.
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From: "tireless_2000" <tireless_2000@...>
To: hp8924@yahoogroups.com
Sent: Friday, July 29, 2011 8:23:35 AM
Subject: [hp8924] Re: Video Monitor

So, has anyone found a converter that works? I'm getting to old to see the small screen anymore. :(

Bob

--- In hp8924@yahoogroups.com, "WA9FVP" <willcoele@...> wrote:
>
> Check out the composite converters on this web page.
> I'm sure something will work.
>
> http://www.pronto.com/shop/composite-converter

>

# 313. Re: [hp8924] Re: Video Monitor

Yahoo group: hp8924
Date: 2011-07-29 21:09:51 UTC
From: Robert Atkinson
Topic: 129  Message: 313

Hi Tony,
The Extron I used not a composite to VGA, It's a multistandard composite/RGB/digital/analog to analog RGB/composite (mono) converter. The 892x has a high resolution monitor running a 19.2kHz line rate and a composite (video & sync) output at that rate. Standard "TV" monitors run at 15.625kHz (625 line UK/CCIR/PAL) or 15.75kHz (525 line USA/RS-170/NTSC). This is quite different to the CGA to VGA or VGA to NTSC/PAL converters commonly available. Some monitors can be "tweeked" to run at the higher rates, but depending on the original desgin margins you can be stressing many components. I'll dig the box out this weekend. I've not used it since a house move.

Regards,
Robert G8RPI.

--- On Fri, 29/7/11, Tony Brignole <abrigno@...t> wrote:

From: Tony Brignole <abrigno@...>
Subject: Re: [hp8924] Re: Video Monitor
To: hp8924@yahoogroups.com
Date: Friday, 29 July, 2011, 19:26

□

I would also be interested.

As I remember the 8924 output is composite so would this would be a composite to VGA adapter??

----- Original Message -----
From:
Robert
Atkinson
To: hp8924@yahoogroups.com
Sent: Friday, July 29, 2011 11:20
AM
Subject: Re: [hp8924] Re: Video
Monitor

I've used an old Extron (RGB 109 or 118 if IRCC) standards converter originally intended to drive analog CRT projection TV's. Picked up on eBay for under $25, but some sellers still want too much for them. It feed the composite input on my 21" Dell LCD PC monitor. Great for just abount anything including CGA ond old Mac stuff.
I can dig it out and set up again if anyone wands specific info.

Robert G8RPI.

--- On Fri, 29/7/11, Ralph S. Turk
<w7hsg@comcast.net> wrote:

From:
Ralph S. Turk <w7hsg@...>
Subject: Re: [hp8924] Re:
Video Monitor
To: hp8924@yahoogroups.com
Date: Friday, 29 July,
2011, 16:46

I
modified the horizontal and verticle of a old 15" B&W
monitor.
Works fine.
Ralph,W7HSG

From: "tireless_2000" <tireless_2000@...>
To:
hp8924@yahoogroups.com
Sent: Friday, July 29, 2011
8:23:35 AM
Subject: [hp8924] Re: Video
Monitor

So, has anyone found a converter that works? I'm getting to old to
see the small screen anymore. :(

Bob

--- In hp8924@yahoogroups.com,
"WA9FVP" <willcoele@...> wrote:
>
> Check out the
composite converters on this web page.
> I'm sure something will
work.
>
> http://www.pronto.com/shop/composite-converter
>

# 314. Re: [hp8924] Re: Video Monitor

Yahoo group: hp8924
Date: 2011-07-30 22:38:44 UTC
From: Tony Brignole
Topic: 129  Message: 314

I have seen several converters on Ebay that advertise that they are composite to VGA. Apparently the Xbox games use a composite output and they need these to go to large screens.

I am looking into them to see if they will work. They are in the $50 to $75 range.

----- Original Message -----
From: Robert Atkinson
To: hp8924@yahoogroups.com
Sent: Friday, July 29, 2011 4:09 PM
Subject: Re: [hp8924] Re: Video Monitor

Hi Tony,
The Extron I used not a composite to VGA, It's a multistandard composite/RGB/digital/analog to analog RGB/composite (mono) converter. The 892x has a high resolution monitor running a 19.2kHz line rate and a composite (video & sync) output at that rate. Standard "TV" monitors run at 15.625kHz (625 line UK/CCIR/PAL) or 15.75kHz (525 line USA/RS-170/NTSC). This is quite different to the CGA to VGA or VGA to NTSC/PAL converters commonly available. Some monitors can be "tweeked" to run at the higher rates, but depending on the original desgin margins you can be stressing many components. I'll dig the box out this weekend. I've not used it since a house move.

Regards,
Robert G8RPI.

--- On Fri, 29/7/11, Tony Brignole <abrigno@...> wrote:

From: Tony Brignole <abrigno@...>
Subject: Re: [hp8924] Re: Video Monitor
To: hp8924@yahoogroups.com
Date: Friday, 29 July, 2011, 19:26

□

I would also be interested.

As I remember the 8924 output is composite so would this would be a composite to VGA adapter??

----- Original Message -----
From: Robert Atkinson
To: hp8924@yahoogroups.com
Sent: Friday, July 29, 2011 11:20 AM
Subject: Re: [hp8924] Re: Video Monitor

I've used an old Extron (RGB 109 or 118 if IRCC) standards converter originally intended to drive analog CRT projection TV's. Picked up on eBay for under $25, but some sellers still want too much for them. It feed the composite input on my 21" Dell LCD PC monitor. Great

for just abount anything including CGA ond old Mac stuff.
I can dig it out and set up again if anyone wands specific info.

Robert G8RPI.

--- On Fri, 29/7/11, Ralph S. Turk <w7hsg@...> wrote:

From: Ralph S. Turk <w7hsg@...>
Subject: Re: [hp8924] Re: Video Monitor
To: hp8924@yahoogroups.com
Date: Friday, 29 July, 2011, 16:46

I modified the horizontal and verticle of a old 15" B&W monitor.
Works fine.
Ralph,W7HSG

---
From: "tireless_2000" <tireless_2000@...>
To: hp8924@yahoogroups.com
Sent: Friday, July 29, 2011 8:23:35 AM
Subject: [hp8924] Re: Video Monitor

So, has anyone found a converter that works? I'm getting to old to see the small screen anymore. :(

Bob

--- In hp8924@yahoogroups.com, "WA9FVP" <willcoele@...> wrote:
>
> Check out the composite converters on this web page.
> I'm sure something will work.
>
> http://www.pronto.com/shop/composite-converter
>

# 315. Re: Video Monitor - Extron 109 Does NOT work

Yahoo group: hp8924
Date: 2011-07-31 20:27:47 UTC
From: robert8rpi
Topic: 129  Message: 315

Hi,
I dug out the Extron setup I'd used before and it does not work. The sync is negative and my Dell needs positive. I can only think that I had it on a different monitor (it's over 3 years since I tried it) that had a true multisync input. Sorry to get your hopes up.
Iv'e ordered one of the ebay CGA/EGA/YUV TO VGA converters Item number: 260823902378. It theory it won't work because the spec says 14.5-16.5K, 23.5-25.5K and 30.5-32.5K but the 8924C outputs 19.2K. I'm hoping the chip will work with 19.2 as well. I've not been able to determine the chip set, so will "suck it and see". All these boards seem to be the same (there is a version with two outputs). The cased "professional" units cost 5 times as much. I will report on my findings.

Robert G8RPI.

--- In hp8924@yahoogroups.com, "Tony Brignole" <abrigno@...> wrote:
>
> I have seen several converters on Ebay that advertise that they are composite to VGA. Apparently the Xbox games use a composite output and they need these to go to large screens.
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> I am looking into them to see if they will work. They are in the $50 to $75 range.
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> ----- Original Message -----
> From: Robert Atkinson
> To: hp8924@yahoogroups.com
> Sent: Friday, July 29, 2011 4:09 PM
> Subject: Re: [hp8924] Re: Video Monitor
>
>
>
> Hi Tony,
> The Extron I used not a composite to VGA, It's a multistandard composite/RGB/digital/analog to analog RGB/composite (mono) converter. The 892x has a high resolution monitor running a 19.2kHz line rate and a composite (video & sync) output at that rate. Standard "TV" monitors run at 15.625kHz (625 line UK/CCIR/PAL) or 15.75kHz (525 line USA/RS-170/NTSC). This is quite different to the CGA to VGA or VGA to NTSC/PAL converters commonly available. Some monitors can be "tweeked" to run at the higher rates, but depending on the original desgin margins you can be stressing many components. I'll dig the box out this weekend. I've not used it since a house move.
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> Regards,
> Robert G8RPI.
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> --- On Fri, 29/7/11, Tony Brignole <abrigno@...> wrote:
>

>
> From: Tony Brignole <abrigno@...>
> Subject: Re: [hp8924] Re: Video Monitor
> To: hp8924@yahoogroups.com
> Date: Friday, 29 July, 2011, 19:26
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>
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> I would also be interested.
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>
> ----- Original Message -----
> From: Robert Atkinson
> To: hp8924@yahoogroups.com
> Sent: Friday, July 29, 2011 11:20 AM
> Subject: Re: [hp8924] Re: Video Monitor
>
>
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> I've used an old Extron (RGB 109 or 118 if IRCC) standards converter originally intended to drive analog CRT projection TV's. Picked up on eBay for under $25, but some sellers still want too much for them. It feed the composite input on my 21" Dell LCD PC monitor. Great for just abount anything including CGA ond old Mac stuff.
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>
> Robert G8RPI.
>
> --- On Fri, 29/7/11, Ralph S. Turk <w7hsg@...> wrote:
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> From: Ralph S. Turk <w7hsg@...>
> Subject: Re: [hp8924] Re: Video Monitor
> To: hp8924@yahoogroups.com
> Date: Friday, 29 July, 2011, 16:46
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> I modified the horizontal and verticle of a old 15" B&W monitor.
> Works fine.
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>
>
> ---------------------------------------------------------
> From: "tireless_2000" <tireless_2000@...>

> To: hp8924@yahoogroups.com
> Sent: Friday, July 29, 2011 8:23:35 AM
> Subject: [hp8924] Re: Video Monitor
>
>
> So, has anyone found a converter that works? I'm getting to old to see the small screen anymore. :(
>
> Bob
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> --- In hp8924@yahoogroups.com, "WA9FVP" <willcoele@> wrote:
> >
> > Check out the composite converters on this web page.
> > I'm sure something will work.
> >
> > http://www.pronto.com/shop/composite-converter
> >
>

# 316. Re: [hp8924] Re: Video Monitor - Extron 109 Does NOT work

Yahoo group: hp8924
Date: 2011-08-02 12:48:23 UTC
From: Tony Brignole
Topic: 129  Message: 316

I'll follow closely, I had looked into this before and it was not straight forward.

I located a tube type monitor that would work but it was too big and expensive.

Hope you have some luck.

----- Original Message -----
From: robert8rpi
To: hp8924@yahoogroups.com
Sent: Sunday, July 31, 2011 3:27 PM
Subject: [hp8924] Re: Video Monitor - Extron 109 Does NOT work

Hi,
I dug out the Extron setup I'd used before and it does not work. The sync is negative and my Dell needs positive. I can only think that I had it on a different monitor (it's over 3 years since I tried it) that had a true multisync input. Sorry to get your hopes up.
Iv'e ordered one of the ebay CGA/EGA/YUV TO VGA converters Item number: 260823902378. It theory it won't work because the spec says 14.5-16.5K, 23.5-25.5K and 30.5-32.5K but the 8924C outputs 19.2K. I'm hoping the chip will work with 19.2 as well. I've not been able to determine the chip set, so will "suck it and see". All these boards seem to be the same (there is a version with two outputs). The cased "professional" units cost 5 times as much.
I will report on my findings.

Robert G8RPI.

--- In hp8924@yahoogroups.com, "Tony Brignole" <abrigno@...> wrote:
>
> I have seen several converters on Ebay that advertise that they are composite to VGA. Apparently the Xbox games use a composite output and they need these to go to large screens.
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> I am looking into them to see if they will work. They are in the $50 to $75 range.
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>
> ----- Original Message -----
> From: Robert Atkinson
> To: hp8924@yahoogroups.com
> Sent: Friday, July 29, 2011 4:09 PM
> Subject: Re: [hp8924] Re: Video Monitor
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>
> Hi Tony,
> The Extron I used not a composite to VGA, It's a multistandard composite/RGB/digital/analog to analog RGB/composite (mono) converter. The 892x has a high resolution monitor running a 19.2kHz line rate and a composite (video & sync) output at

that rate. Standard "TV" monitors run at 15.625kHz (625 line UK/CCIR/PAL) or 15.75kHz (525 line USA/RS-170/NTSC). This is quite different to the CGA to VGA or VGA to NTSC/PAL converters commonly available. Some monitors can be "tweeked" to run at the higher rates, but depending on the original desgin margins you can be stressing many components. I'll dig the box out this weekend. I've not used it since a house move.
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> Regards,
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> --- On Fri, 29/7/11, Tony Brignole <abrigno@...> wrote:
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> From: Tony Brignole <abrigno@...>
> Subject: Re: [hp8924] Re: Video Monitor
> To: hp8924@yahoogroups.com
> Date: Friday, 29 July, 2011, 19:26
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> As I remember the 8924 output is composite so would this would be a composite to VGA adapter??
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> From: Robert Atkinson
> To: hp8924@yahoogroups.com
> Sent: Friday, July 29, 2011 11:20 AM
> Subject: Re: [hp8924] Re: Video Monitor
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> Robert G8RPI.
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> --- On Fri, 29/7/11, Ralph S. Turk <w7hsg@...> wrote:
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> From: Ralph S. Turk <w7hsg@...>
> Subject: Re: [hp8924] Re: Video Monitor
> To: hp8924@yahoogroups.com
> Date: Friday, 29 July, 2011, 16:46
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> I modified the horizontal and verticle of a old 15" B&W monitor.
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> ---
> From: "tireless_2000" <tireless_2000@...>
> To: hp8924@yahoogroups.com
> Sent: Friday, July 29, 2011 8:23:35 AM
> Subject: [hp8924] Re: Video Monitor
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> Bob
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> --- In hp8924@yahoogroups.com, "WA9FVP" <willcoele@> wrote:
> >
> > Check out the composite converters on this web page.
> > I'm sure something will work.
> >
> > http://www.pronto.com/shop/composite-converter
> >
>

# 317. Re: Video Monitor

Yahoo group: hp8924
Date: 2011-08-03 00:55:17 UTC
From: willcoele@ameritech.net
Topic: 129  Message: 317

I think it can be done with a simple circuit that extracts the horizontal and vertical sync pluses. The LM1881 is a sync separator IC that can connect to pin 13 (hsync) and pin 14 (vsync) of the VGA connector. The input to the chip is the composite video and the same signal can connect to pin 2 (green) of the VGA connector you can even use 3 switches to select all 3 colors. There's no reason why it wouldn't work. I remember years ago where a co-worker did something similar to a CAD work station monitor.

The LM181 can be found at;

http://www.national.com/mpf/LM/LM1881.html#Overview

--- In hp8924@yahoogroups.com, "abrigno1" <abrigno@...> wrote:
>
> I have been trying to find a monitor for my 8924C. The mulitsync units I have found are fairly expensive.
>
> Has anyone tried the converters that convert composite to VGA?? I cannot find any specifics as if they are fixed tuned to NTSC sync rates or have ability to handle the 19 KHz required. These units are readily available on Ebay in the $30-50 range and would be great if they could use the existing VGA LCD monitors.
>

# 318. Re: Video Monitor

Yahoo group: hp8924
Date: 2011-08-03 06:37:01 UTC
From: robert8rpi
Topic: 129  Message: 318

Hi,
This will only work if the monitor can sync down to 19kHz. Standard VGA ones only go down to about 30kHz. A "multisync" monitor will work and many CAD monitors were multisync. That leaves two options a crude line doubler or a proper scan converter that stores each frame at one rate and then reads them out at the higher rate. The $50 units do this, it's just not clear if the will take a 19.2kHz input. An LM1881 or Extron may still be needed to extract the sync.

Robert G8RPI.

--- In hp8924@yahoogroups.com, "willcoele@..." <willcoele@...> wrote:
>
>
> I think it can be done with a simple circuit that extracts the horizontal and vertical sync pluses. The LM1881 is a sync separator IC that can connect to pin 13 (hsync) and pin 14 (vsync) of the VGA connector. The input to the chip is the composite video and the same signal can connect to pin 2 (green) of the VGA connector you can even use 3 switches to select all 3 colors. There's no reason why it wouldn't work. I remember years ago where a co-worker did something similar to a CAD work station monitor.
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> The LM181 can be found at;
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> http://www.national.com/mpf/LM/LM1881.html#Overview
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> --- In hp8924@...m, "abrigno1" <abrigno@> wrote:
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> > I have been trying to find a monitor for my 8924C. The mulitsync units I have found are fairly expensive.
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> > Has anyone tried the converters that convert composite to VGA?? I cannot find any specifics as if they are fixed tuned to NTSC sync rates or have ability to handle the 19 KHz required. These units are readily available on Ebay in the $30-50 range and would be great if they could use the existing VGA LCD monitors.
> >
>

# 319. Re: Video Monitor

Yahoo group: hp8924
Date: 2011-08-03 15:46:16 UTC
From: Joel Koltner
Topic: 129  Message: 319

--- In hp8924@yahoogroups.com, "willcoele@..." <willcoele@...> wrote:
> I think it can be done with a simple circuit that extracts the horizontal and vertical sync pluses. The LM1881 is a sync separator IC that can connect to pin 13 (hsync) and pin 14 (vsync) of the VGA connector. The input to the chip is the composite video and the same signal can connect to pin 2 (green) of the VGA connector you can even use 3 switches to select all 3 colors. There's no reason why it wouldn't work.

Sure there is: You need to find a monitor that supports a 19kHz horizontal sync rate.

These were once (back in the days of CRTs) far more common than they are today, whereas regular old VGA with its 30kHz horizontal sync rate is primarily kept around because many computers still power-on in that mode... but very, very few people actually run their primary OS at 640x480 anymore!

The scan converter boxes/boards that people have been discussing contain a full frame buffer memory so that many different input video formats can be digitized, but then on the output side a standard mode such as VGA, SVGA, etc. can be used.

Geez, I remember when XGA -- 1024x768 -- was the "really high end" of display resolutions! Today 1920x1080 or so is the norm, and those with a bit more money to spend splurge on 2560x1600 30"+ monitors...

---Joel

# 320. Video Monitor - it works

Yahoo group: hp8924
Date: 2011-08-03 18:10:02 UTC
From: Robert Atkinson
Topic: 320  Message: 320
Attachments: 2 described; binary payloads are missing from this source WARC

Hi all,
The CGA to VGA converter arrived and a quick lash-up shows that it works! see attached.
I bought ebay item 260823902378 which is a Gonbes GBS-8200 available from many suppliers.
http://gonbestechnology.en.ecplaza.net/catalog.asp?DirectoryID=239168&CatalogID=1631901
It requires separate video and sync. I connected the video to the green input and linked it to the sync input with a 0.1uF ceramic cap.
See attached photos (check "attachments" folder if you don't get direct mail)
A bit more work needed, but obviously the chip will sync to more than just CGA,EGA and component.

Robert G8RPI

# 321. Re: Video Monitor - it works

Yahoo group: hp8924
Date: 2011-08-03 19:20:02 UTC
From: wb5nfc
Topic: 320  Message: 321

Robert,

Just a quick note of thanks. This is a wonderful development for all 8924 owners - especially those of us who have noticed the output of the internal monitor getting smaller as the years go by. I was even contemplating selling or trading mine because it was just so hard to see.

Thank you for documenting and sharing your findings with the group!

John / WB5NFC

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Hi all,
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> A bit more work needed, but obviously the chip will sync to more than just CGA,EGA and component.
>
> Robert G8RPI
>

# 322. Re: [hp8924] Video Monitor - it works [2 Attachments]

Yahoo group: hp8924
Date: 2011-08-03 19:51:04 UTC
From: Tony Brignole
Topic: 322  Message: 322

Robert, thanks for your work and posting it to the group. This will be a big help.

Looks doable and I'll give it a try.

----- Original Message -----
From: Robert Atkinson
To: hp8924@yahoogroups.com
Sent: Wednesday, August 03, 2011 1:10 PM
Subject: [hp8924] Video Monitor - it works [2 Attachments]

[Attachment(s) from Robert Atkinson included below]

Hi all,
The CGA to VGA converter arrived and a quick lash-up shows that it works! see attached.
I bought ebay item 260823902378 which is a Gonbes GBS-8200 available from many suppliers.
http://gonbestechnology.en.ecplaza.net/catalog.asp?DirectoryID=239168&CatalogID=1631901
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See attached photos (check "attachments" folder if you don't get direct mail)
A bit more work needed, but obviously the chip will sync to more than just CGA,EGA and component.

Robert G8RPI

# 323. Re: Video Monitor - it works

Yahoo group: hp8924
Date: 2011-08-03 20:46:43 UTC
From: robert8rpi
Topic: 320  Message: 323

Thanks John,
I'll work on the sync input and report back to the list. I just wish I knew what the chip was so I could get the full datasheet and spec. It's got a heatsink firmly glued to it so no chance of reading a number.

Robert G8RPI.

--- In hp8924@yahoogroups.com, "wb5nfc" <wb5nfc@...> wrote:
>
> Robert,
>
> Just a quick note of thanks. This is a wonderful development for all 8924 owners - especially those of us who have noticed the output of the internal monitor getting smaller as the years go by. I was even contemplating selling or trading mine because it was just so hard to see.
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> Thank you for documenting and sharing your findings with the group!
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> John / WB5NFC
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> --- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@> wrote:
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> >
> > Robert G8RPI
> >
>

# 324. Re: Video Monitor - it works

Yahoo group: hp8924
Date: 2011-08-03 21:06:54 UTC
From: willcoele@ameritech.net
Topic: 320  Message: 324

I don't understand your connections. Why is there a need to connect the video and sync together? Is the sync connection for the monitor or for the converter board? If there's a VGA plug on the converter, the sync connections should be provided by the VGA connector.

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Hi all,
> The CGA to VGA converter arrived and a quick lash-up shows that it works! see attached.
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> Robert G8RPI
>

# 325. Re: Video Monitor

Yahoo group: hp8924
Date: 2011-08-03 21:18:34 UTC
From: willcoele@ameritech.net
Topic: 129  Message: 325

Most are LCD monitors are downward compatable. When your computer boots under the bios screen, it's displaying the EGA resolution.

--- In hp8924@yahoogroups.com, "robert8rpi" <robert8rpi@...> wrote:
>
> Hi,
> This will only work if the monitor can sync down to 19kHz. Standard VGA ones only go down to about 30kHz. A "multisync" monitor will work and many CAD monitors were multisync. That leaves two options a crude line doubler or a proper scan converter that stores each frame at one rate and then reads them out at the higher rate. The $50 units do this, it's just not clear if the will take a 19.2kHz input. An LM1881 or Extron may still be needed to extract the sync.
>
> Robert G8RPI.

# 326. Re: [hp8924] Re: Video Monitor - it works

Yahoo group: hp8924
Date: 2011-08-03 22:09:23 UTC
From: Robert Atkinson
Topic: 320  Message: 326

Hi,
The converter board requires separte video (RGB for colour) and sync signals. The 8924C puts out composite video and sync. I'm connecting viadeo and sync to the green video input and coupling the video and sync to the sync inbut with a 0.1uf capacitor.

Robert G8RPI.

--- On Wed, 3/8/11, willcoele@... <willcoele@...> wrote:

From: willcoele@ameritech.net <willcoele@...>
Subject: [hp8924] Re: Video Monitor - it works
To: hp8924@yahoogroups.com
Date: Wednesday, 3 August, 2011, 22:06

I don't understand your connections. Why is there a need to connect the video and sync together? Is the sync connection for the monitor or for the converter board? If there's a VGA plug on the converter, the sync connections should be provided by the VGA connector.

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:

>

> Hi all,

> The CGA to VGA converter arrived and a quick lash-up shows that it works! see attached.

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> It requires separate video and sync. I connected the video to the green input and linked it to the sync input with a 0.1uF ceramic cap.

> See attached photos (check "attachments" folder if you don't get direct mail)

> A bit more work needed, but obviously the chip will sync to more than just CGA,EGA and component.

>

> Robert G8RPI

>

# 327. Re: [hp8924] Re: Video Monitor

Yahoo group: hp8924
Date: 2011-08-03 22:11:20 UTC
From: Robert Atkinson
Topic: 129  Message: 327

Hi,
The BIOS may be running EGA resolution but the Video card is putting out a VGA signal.

Robert.

--- On Wed, 3/8/11, willcoele@... <willcoele@...> wrote:

From: willcoele@... <willcoele@ameritech.net>
Subject: [hp8924] Re: Video Monitor
To: hp8924@yahoogroups.com
Date: Wednesday, 3 August, 2011, 22:18

Most are LCD monitors are downward compatable. When your computer boots under the bios screen, it's displaying the EGA resolution.

--- In hp8924@yahoogroups.com, "robert8rpi" <robert8rpi@...> wrote:

>

> Hi,

> This will only work if the monitor can sync down to 19kHz. Standard VGA ones only go down to about 30kHz. A "multisync" monitor will work and many CAD monitors were multisync. That leaves two options a crude line doubler or a proper scan converter that stores each frame at one rate and then reads them out at the higher rate. The $50 units do this, it's just not clear if the will take a 19.2kHz input. An LM1881 or Extron may still be needed to extract the sync.

>

> Robert G8RPI.

# 328. RE: [hp8924] Re: Video Monitor

Yahoo group: hp8924
Date: 2011-08-03 23:29:35 UTC
From: Mike, KD7MG
Topic: 129  Message: 328

99.9% of computer monitors built in the last 20 years (including LCD) will not sync much below 30KHz, which is just under the lowest VGA resolution. EGA is fixed at either 15.7KHz or 21.8 KHz, depending on the mode, which is definitely out of reach of today's monitors, as is the 19.2KHz signal that HP blessed us with.

As a side note, when VGA completely took over the CGA/EGA/MDA world in the late 80's and into the 90's, countless EGA monitors hit the bottom of dumpsters. Because of that, there was a time when "true" EGA monitors were fetching up to $400-$500 on eBay, because many were incorporated into things like CNC machines, and when a monitor would fail it was far cheaper to pay that price then to replace the whole machine. I have an older Techtronics Logic Analyzer built on an IBM AT platform that requires an EGA display. These sub-$50 converters (that Robert so graciously discovered for us), were designed to bridge that gap of using CGA/EGA equipment with today's monitors.

Now if we can just find a case these converters will fit in all will be good!

Mike, KD7MG

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of willcoele@...
Sent: Wednesday, August 03, 2011 3:19 PM
To: hp8924@yahoogroups.com
Subject: [hp8924] Re: Video Monitor

Most are LCD monitors are downward compatable. When your computer boots under the bios screen, it's displaying the EGA resolution.

--- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com> , "robert8rpi" <robert8rpi@...> wrote:
>
> Hi,
> This will only work if the monitor can sync down to 19kHz. Standard VGA ones only go down to about 30kHz. A "multisync" monitor will work and many CAD monitors were multisync. That leaves two options a crude line doubler or a proper scan converter that stores each frame at one rate and then reads them out at the higher rate. The $50 units do this, it's just not clear if the will take a 19.2kHz input. An LM1881 or Extron may still be needed to extract the sync.
>
> Robert G8RPI.

# 329. RE: [hp8924] Re: Video Monitor - it works

Yahoo group: hp8924
Date: 2011-08-04 08:31:20 UTC
From: Mike, KD7MG
Topic: 320  Message: 329

FYI, the GBS-8220 appears to be the same animal as the GBS-8200, only re-laid out with dual VGA output connectors, each with an associated header as well. Many eBay sellers aren't paying close enough attention to the difference in parts numbers, so beware if it matters to you. Just ordered a GBS-8220 for myself. Thanks for the tip Robert!

Mike, KD7MG

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Robert Atkinson
Sent: Wednesday, August 03, 2011 4:09 PM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Re: Video Monitor - it works

Hi,
The converter board requires separte video (RGB for colour) and sync signals. The 8924C puts out composite video and sync. I'm connecting viadeo and sync to the green video input and coupling the video and sync to the sync inbut with a 0.1uf capacitor.

Robert G8RPI.

--- On Wed, 3/8/11, willcoele@...t <willcoele@...> wrote:

From: willcoele@... <willcoele@...>
Subject: [hp8924] Re: Video Monitor - it works
To: hp8924@yahoogroups.com
Date: Wednesday, 3 August, 2011, 22:06

I don't understand your connections. Why is there a need to connect the video and sync together? Is the sync connection for the monitor or for the converter board? If there's a VGA plug on the converter, the sync connections should be provided by the VGA connector.

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Hi all,
> The CGA to VGA converter arrived and a quick lash-up shows that it works! see attached.
> I bought ebay item 260823902378 which is a Gonbes GBS-8200 available from many suppliers. http://gonbestechnology.en.ecplaza.net/catalog.asp?DirectoryID=239168 <http://gonbestechnology.en.ecplaza.net/catalog.asp?DirectoryID=239168&CatalogID=1631901> &CatalogID=1631901
> It requires separate video and sync. I connected the video to the green input and linked it to the sync input with a 0.1uF ceramic cap.
> See attached photos (check "attachments" folder if you don't get direct mail)
> A bit more work needed, but obviously the chip will sync to more than just CGA,EGA and component.
>
> Robert G8RPI
>

# 330. Re: [hp8924] Re: Video Monitor - it works

Yahoo group: hp8924
Date: 2011-08-04 11:27:07 UTC
From: Bob S
Topic: 320  Message: 330

OK, for radio I can hold my own. For video I know nothing. How about a sketch or a little more detail on the connections?

Bob

--- On Wed, 8/3/11, Robert Atkinson <robert8rpi@...> wrote:

From: Robert Atkinson <robert8rpi@...>
Subject: Re: [hp8924] Re: Video Monitor - it works
To: hp8924@yahoogroups.com
Date: Wednesday, August 3, 2011, 6:09 PM

Hi,
The converter board requires separte video (RGB for colour) and sync signals. The 8924C puts out composite video and sync. I'm connecting viadeo and sync to the green video input and coupling the video and sync to the sync inbut with a 0.1uf capacitor.

Robert G8RPI.

--- On Wed, 3/8/11, willcoele@... <willcoele@...> wrote:

From: willcoele@... <willcoele@...>
Subject: [hp8924] Re: Video Monitor - it works
To: hp8924@yahoogroups.com
Date: Wednesday, 3 August, 2011, 22:06

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--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Hi all,
> The CGA to VGA converter arrived and a quick lash-up shows that it works! see attached.
> I bought ebay item 260823902378 which is a Gonbes GBS-8200 available from many suppliers.
http://gonbestechnology.en.ecplaza.net/catalog.asp?DirectoryID=239168&CatalogID=1631901
> It requires separate video and sync. I connected the video to the green input and linked it to the sync input with a 0.1uF ceramic cap.
> See attached photos (check "attachments" folder if you don't get direct mail)
> A bit more work needed, but obviously the chip will sync to more than just CGA,EGA and component.
>
> Robert G8RPI
>

# 331. Re: Video Monitor - it works

Yahoo group: hp8924
Date: 2011-08-04 11:28:23 UTC
From: robert8rpi
Topic: 320  Message: 331

Yes,
It's the same thing. There are also boxed versions from domestic (£50 to industrial £100
++++
A web search will give some info. Documentation is poor but what do you want for the money?

Robert G8RPI.

--- In hp8924@yahoogroups.com, "Mike, KD7MG" <kd7mg@...> wrote:
>
> FYI, the GBS-8220 appears to be the same animal as the GBS-8200, only re-laid out with dual VGA output connectors, each with an associated header as well. Many eBay sellers arenâ□□t paying close enough attention to the difference in parts numbers, so beware if it matters to you. Just ordered a GBS-8220 for myself. Thanks for the tip Robert!
>
> Mike, KD7MG
>
>
>
> From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Robert Atkinson
> Sent: Wednesday, August 03, 2011 4:09 PM
> To: hp8924@yahoogroups.com
> Subject: Re: [hp8924] Re: Video Monitor - it works
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> Hi,
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> Robert G8RPI.
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> --- On Wed, 3/8/11, willcoele@... <willcoele@...> wrote:
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> From: willcoele@... <willcoele@...>
> Subject: [hp8924] Re: Video Monitor - it works
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> > I bought ebay item 260823902378 which is a Gonbes GBS-8200 available from many supppliers.
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> >
> > Robert G8RPI
> >
>

# 332. Re: Video Monitor - it works

Yahoo group: hp8924
Date: 2011-08-04 18:00:14 UTC
From: willcoele@ameritech.net
Topic: 320  Message: 332

Where is the sync output on the 8924?

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Hi,
> The converter board requires separte video (RGB for colour) and sync signals. The 8924C puts out composite video and sync. I'm connecting viadeo and sync to the green video input and coupling the video and sync to the sync inbut with a 0.1uf capacitor.
>
> Robert G8RPI.
>

# 333. Re: [hp8924] Re: Video Monitor - it works

Yahoo group: hp8924
Date: 2011-08-04 19:33:25 UTC
From: Robert Atkinson
Topic: 320  Message: 333

Hi,
It's composite video and sync on a BNC at the top left rear panel. The converter has four inputs, Red, Green, Blue and Sync. I connected the video directly to the green input and via a 0.1uF capacitor to the sync input. This is NOT ideal but quickly proved that the unit will work with a 19.2kHz input (It's not in the spec). I'll work on a better sync input when I get a moment.

Robert G8RPI.

--- On Thu, 4/8/11, willcoele@... <willcoele@...> wrote:

From: willcoele@... <willcoele@ameritech.net>
Subject: [hp8924] Re: Video Monitor - it works
To: hp8924@yahoogroups.com
Date: Thursday, 4 August, 2011, 19:00

Where is the sync output on the 8924?

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:

>

> Hi,

> The converter board requires separte video (RGB for colour) and sync signals. The 8924C puts out composite video and sync. I'm connecting viadeo and sync to the green video input and coupling the video and sync to the sync inbut with a 0.1uf capacitor.

>

> Robert G8RPI.

>

# 334. Re: Video Monitor - it works

Yahoo group: hp8924
Date: 2011-08-04 21:53:03 UTC
From: willcoele@ameritech.net
Topic: 320  Message: 334

Then the converter board has a sync separator. The sync input on the converter board must be a composite input. The composite signal has sync tips that are negative pulses and the duty cycle determines if it's a horizontal or vertical sync. The sync separator can sort it out and ignore the positive going video levels. On the other hand the RGB uses the video levels to establish luminance. There's no phase information therefore it's just a green picture.

My friend who's a video expert claims that the coupling capacitor should be 100uF not .1uF. But he's probably thinking of the NTSC standard where the frame rate is 30Hz. I assume the frame rate in this case is 60Hz.

You could probably connect all three colors to the composite output with a potentiometer. You could change the screen color but it would probably need a transistor circuit for each color.

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
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> Robert G8RPI.
>
> --- On Thu, 4/8/11, willcoele@... <willcoele@...> wrote:
>
> From: willcoele@... <willcoele@...>
> Subject: [hp8924] Re: Video Monitor - it works
> To: hp8924@yahoogroups.com
> Date: Thursday, 4 August, 2011, 19:00
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> > Robert G8RPI.
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# 335. Re: [hp8924] Re: Video Monitor - it works

Yahoo group: hp8924
Date: 2011-08-05 06:28:03 UTC
From: Robert Atkinson
Topic: 320  Message: 335

Hi,
The board does not appear to have a sync separator in terms of video/sync separation. the combined V/H input is (just) capable of dealing with the composite signal it needs some more work. While the frame rate on video may be 30/60Hz the sync pulses are narrow so you do not need a large capacitor to pass just the sync. The point of the 0.1uF was to (in a very crude manner) high pass filter the signal so the fast sync pulse edges passed but the lower frequencies of rhe video did not.

Robert G8RPI.

--- On Thu, 4/8/11, willcoele@... <willcoele@...> wrote:

From: willcoele@... <willcoele@...>
Subject: [hp8924] Re: Video Monitor - it works
To: hp8924@yahoogroups.com
Date: Thursday, 4 August, 2011, 22:53

Then the converter board has a sync separator. The sync input on the converter board must be a composite input. The composite signal has sync tips that are negative pulses and the duty cycle determines if it's a horizontal or vertical sync. The sync separator can sort it out and ignore the positive going video levels. On the other hand the RGB uses the video levels to establish luminance. There's no phase information therefore it's just a green picture.

My friend who's a video expert claims that the coupling capacitor should be 100uF not .1uF. But he's probably thinking of the NTSC standard where the frame rate is 30Hz. I assume the frame rate in this case is 60Hz.

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> Hi,
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> Robert G8RPI.
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> --- On Thu, 4/8/11, willcoele@... <willcoele@...> wrote:
>
> From: willcoele@... <willcoele@...>
> Subject: [hp8924] Re: Video Monitor - it works

> To: hp8924@yahoogroups.com
> Date: Thursday, 4 August, 2011, 19:00
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> > Robert G8RPI.
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# 336. Re: Video Monitor - it works

Yahoo group: hp8924
Date: 2011-08-06 01:28:21 UTC
From: willcoele@ameritech.net
Topic: 320  Message: 336

VGA monitors require an Hsync(pin 13) and a Vsync(pin 14) on the 15 pin connector. To generate the signals, there has to be a sync separator somewhere on the board. I'm sure it's embedded in one of the on board ASCIC's. Pins 123 are the RGB inputs and pins 5 thu 10 are ground pins. On newer monitors some of the ground pins are used for monitor identification.

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Hi,
> The board does not appear toÂ have a sync separator in terms of video/sync separation. the combined V/H input is (just)Â capable of dealing with the composite signal it needs some more work. While the frame rate on video may be 30/60Hz the sync pulses areÂ narrow so you do not need a large capacitor to pass just the sync. The point of the 0.1uF was to (in a very crude manner) high pass filter the signal so the fast sync pulse edges passed but the lower frequencies of rhe video did not.
> Â
> Robert G8RPI.
>
> --- On Thu, 4/8/11, willcoele@... <willcoele@...> wrote:
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>
> From: willcoele@... <willcoele@...>
> Subject: [hp8924] Re: Video Monitor - it works
> To: hp8924@yahoogroups.com
> Date: Thursday, 4 August, 2011, 22:53
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> Then the converter board has a sync separator. The sync input on the converter board must be a composite input. The composite signal has sync tips that are negative pulses and the duty cycle determines if it's a horizontal or vertical sync. The sync separator can sort it out and ignore the positive going video levels. On the other hand the RGB uses the video levels to establish luminance. There's no phase information therefore it's just a green picture.
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> My friend who's a video expert claims that the coupling capacitor should be 100uF not .1uF. But he's probably thinking of the NTSC standard where the frame rate is 30Hz. I assume the frame rate in this case is 60Hz.
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> > Robert G8RPI.
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> > --- On Thu, 4/8/11, willcoele@ <willcoele@> wrote:
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> > Subject: [hp8924] Re: Video Monitor - it works
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> > > Robert G8RPI.
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# 337. Re: [hp8924] Re: Video Monitor - it works

Yahoo group: hp8924
Date: 2011-08-06 07:41:35 UTC
From: Robert Atkinson
Topic: 320  Message: 337

Hi,

sorry to be pedantic, but it's not a separator. The input and output signals are at different rates and are not syncronised. The converter is a frame store. The input signal is digitised and written to memory at one rate, then read out at another and converted back to analog. The output sync is newly generated without reference to the input. Just because the sync input works with an ac-coupled video signal just means it's a versatlie input, not nessesarly a separator.

Regards,

Robert.

--- On Sat, 6/8/11, willcoele@... <willcoele@...> wrote:

From: willcoele@ameritech.net <willcoele@...>
Subject: [hp8924] Re: Video Monitor - it works
To: hp8924@yahoogroups.com
Date: Saturday, 6 August, 2011, 2:28

VGA monitors require an Hsync(pin 13) and a Vsync(pin 14) on the 15 pin connector. To generate the signals, there has to be a sync separator somewhere on the board. I'm sure it's embedded in one of the on board ASCIC's. Pins 123 are the RGB inputs and pins 5 thu 10 are ground pins. On newer monitors some of the ground pins are used for monitor identification.

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:

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> Robert G8RPI.

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> --- On Thu, 4/8/11, willcoele@... <willcoele@...> wrote:

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> Subject: [hp8924] Re: Video Monitor - it works

> To: hp8924@yahoogroups.com

> Date: Thursday, 4 August, 2011, 22:53

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> Then the converter board has a sync separator. The sync input on the converter board must be a composite input. The composite signal has sync tips that are negative pulses and the duty cycle determines if it's a horizontal or vertical sync. The sync separator can sort it out and ignore the positive going video levels. On the other hand the RGB uses the video levels to establish luminance. There's no phase information therefore it's just a green picture.

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> > Robert G8RPI.

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> > --- On Thu, 4/8/11, willcoele@ <willcoele@> wrote:

> >

> > From: willcoele@ <willcoele@>

> > Subject: [hp8924] Re: Video Monitor - it works

> > To: hp8924@yahoogroups.com

> > Date: Thursday, 4 August, 2011, 19:00

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# 338. Re: [hp8924] Re: Video Monitor - it works

Yahoo group: hp8924
Date: 2011-08-06 11:46:26 UTC
From: Tony Brignole
Topic: 320  Message: 338

What is the impedance of the video out on the 8924. My first guess would be 75 ohms but knowing HP could be 50.

----- Original Message -----
From: willcoele@...
To: hp8924@yahoogroups.com
Sent: Friday, August 05, 2011 8:28 PM
Subject: [hp8924] Re: Video Monitor - it works

VGA monitors require an Hsync(pin 13) and a Vsync(pin 14) on the 15 pin connector. To generate the signals, there has to be a sync separator somewhere on the board. I'm sure it's embedded in one of the on board ASCIC's. Pins 123 are the RGB inputs and pins 5 thu 10 are ground pins. On newer monitors some of the ground pins are used for monitor identification.

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Hi,
> The board does not appear toÂ have a sync separator in terms of video/sync separation. the combined V/H input is (just)Â capable of dealing with the composite signal it needs some more work. While the frame rate on video may be 30/60Hz the sync pulses areÂ narrow so you do not need a large capacitor to pass just the sync. The point of the 0.1uF was to (in a very crude manner) high pass filter the signal so the fast sync pulse edges passed but the lower frequencies of rhe video did not.
> Â
> Robert G8RPI.
>
> --- On Thu, 4/8/11, willcoele@... <willcoele@...> wrote:
>
>
> From: willcoele@... <willcoele@...>
> Subject: [hp8924] Re: Video Monitor - it works
> To: hp8924@yahoogroups.com
> Date: Thursday, 4 August, 2011, 22:53
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> Then the converter board has a sync separator. The sync input on the converter board must be a composite input. The composite signal has sync tips that are negative pulses and the duty cycle determines if it's a horizontal or vertical sync. The sync separator can sort it out and ignore the positive going video levels. On the other hand the RGB uses the video

levels to establish luminance. There's no phase information therefore it's just a green picture.
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> My friend who's a video expert claims that the coupling capacitor should be 100uF not .1uF. But he's probably thinking of the NTSC standard where the frame rate is 30Hz. I assume the frame rate in this case is 60Hz.
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> You could probably connect all three colors to the composite output with a potentiometer. You could change the screen color but it would probably need a transistor circuit for each color.
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> --- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@> wrote:
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> > Robert G8RPI.
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> > From: willcoele@ <willcoele@>
> > Subject: [hp8924] Re: Video Monitor - it works
> > To: hp8924@yahoogroups.com
> > Date: Thursday, 4 August, 2011, 19:00
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# 339. Re: Video Monitor - it works

Yahoo group: hp8924
Date: 2011-08-07 03:06:59 UTC
From: willcoele@ameritech.net
Topic: 320  Message: 339

That's true but the board has to strip the sync pluses from the composate signal at the 19.2 rate, separate them into a Vsync and Hsync, Re-clock the two sync signals to the VGA rate and feed it to pins 13 and 14 on the VGA connector. Think of the 19.2 composite as a serial bit streem and the RGB, Hsync and Vsync as a parallel bit streem. A sync separator is a circuit that converts a serial bit streem to a parallel bit streem.

As I said before if a monitor can sync to the 19.2 rate you don't need all of that circuitry, just a simple sync seperator to convert it from a composite signal (a serial bit stream) to an RGB/hsync/vsync signal (a parallel bit stream).

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
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> Hi,
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> sorry to be pedantic, but it's not a separator. The input and output
> signals are at different rates and are not syncronised. The converter is
> a frame store. The input signal is digitised and written to memory at
> one rate, then read out at another and converted back to analog. The
> output sync is newly generated without reference to the input. Just
> because the sync input works with an ac-coupled video signal just means
> it's a versatlie input, not nessesarly a separator.
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> Regards,
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> Robert.
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> --- On Sat, 6/8/11, willcoele@... <willcoele@...> wrote:
>
> From: willcoele@... <willcoele@...>
> Subject: [hp8924] Re: Video Monitor - it works
> To: hp8924@yahoogroups.com
> Date: Saturday, 6 August, 2011, 2:28
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# 340. Re: [hp8924] Re: Video Monitor - it works

Yahoo group: hp8924
Date: 2011-08-07 07:45:21 UTC
From: Robert Atkinson
Topic: 320  Message: 340

OK,
Now find me a <$100 monitor that will sync to 19.2kHz. Ebay Item 180696788773 might but probably won't so I'm not going to buy one to find out. You can buy little 7" or less monitors that take VGA. one of these with or without a frame store might make an internal replacement.

Regards,
Robert G8RPI.

--- On Sun, 7/8/11, willcoele@... <willcoele@ameritech.net> wrote:

From: willcoele@... <willcoele@...t>
Subject: [hp8924] Re: Video Monitor - it works
To: hp8924@...m
Date: Sunday, 7 August, 2011, 4:06

That's true but the board has to strip the sync pluses from the composate signal at the 19.2 rate, separate them into a Vsync and Hsync, Re-clock the two sync signals to the VGA rate and feed it to pins 13 and 14 on the VGA connector. Think of the 19.2 composite as a serial bit streem and the RGB, Hsync and Vsync as a parallel bit streem. A sync separator is a circuit that converts a serial bit streem to a parallel bit streem.

As I said before if a monitor can sync to the 19.2 rate you don't need all of that circuitry, just a simple sync seperator to convert it from a composite signal (a serial bit stream) to an RGB/hsync/vsync signal (a parallel bit stream).

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# 341. Re: Video Monitor - it works

Yahoo group: hp8924
Date: 2011-08-08 11:50:13 UTC
From: robert8rpi
Topic: 320  Message: 341

Hi Tony,
It's 75R but not very critical.

Robert.

--- In hp8924@yahoogroups.com, "Tony Brignole" <abrigno@...> wrote:
>
> What is the impedance of the video out on the 8924. My first guess would be 75 ohms but knowing HP could be 50.
>
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>
> ----- Original Message -----
> From: willcoele@...
> To: hp8924@yahoogroups.com
> Sent: Friday, August 05, 2011 8:28 PM
> Subject: [hp8924] Re: Video Monitor - it works
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# 342. RE: [hp8924] Re: Video Monitor - it works

Yahoo group: hp8924
Date: 2011-08-08 17:47:56 UTC
From: Mike, KD7MG
Topic: 320  Message: 342

I got my board in and tried to duplicate what you did, but could not get it to work. I tried different values of capacitors, but only got an occasional “flicker” of the right picture, but it wouldn’t stay on. I’m going to look into either building a small op-amp sync detect circuit or maybe do it right and get an LM1881.

I DID get a beautiful picture when I fed the composite video into the “Y” port on the board, only the left-most part of the picture was cut off and I could not find a way to adjust it. Very close to getting what we need.

Mike, KD7MG

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Robert Atkinson
Sent: Thursday, August 04, 2011 1:33 PM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Re: Video Monitor - it works

Hi,
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Subject: [hp8924] Re: Video Monitor - it works
To: hp8924@yahoogroups.com
Date: Thursday, 4 August, 2011, 19:00

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--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
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# 343. RE: [hp8924] Re: Video Monitor - it works

Yahoo group: hp8924
Date: 2011-08-08 19:24:08 UTC
From: Robert Atkinson
Topic: 320  Message: 343

Hi Mike,
There is vertical and horizontal position and size controls available through the menu.
There is also a language selection including english.
I'll try the Y input here too.

Robert.

--- On Mon, 8/8/11, Mike, KD7MG <kd7mg@...> wrote:

From: Mike, KD7MG <kd7mg@...>
Subject: RE: [hp8924] Re: Video Monitor - it works
To: hp8924@yahoogroups.com
Date: Monday, 8 August, 2011, 18:47

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Subject: Re: [hp8924] Re: Video Monitor - it works

Hi,
It's composite video and sync on a BNC at the top left rear panel. The converter has four inputs, Red, Green, Blue and Sync. I connected the video directly to the green input and via a 0.1uF capacitor to the sync input. This is NOT ideal but quickly proved that the unit will work with a 19.2kHz input (It's not in the spec). I'll work on a better sync input when I get a moment.

Robert G8RPI.

--- On Thu, 4/8/11, willcoele@ameritech.net <willcoele@...> wrote:

From: willcoele@... <willcoele@...>
Subject: [hp8924] Re: Video Monitor - it works
To: hp8924@yahoogroups.com
Date: Thursday, 4 August, 2011, 19:00

Where is the sync output on the 8924?

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Hi,
> The converter board requires separte video (RGB for colour) and sync signals. The 8924C puts out composite video and sync. I'm connecting viadeo and sync to the green video input and coupling the video and sync to the sync inbut with a 0.1uf capacitor.
>
> Robert G8RPI.
>

# 344. RE: [hp8924] Re: Video Monitor - it works

Yahoo group: hp8924
Date: 2011-08-08 19:59:38 UTC
From: Mike, KD7MG
Topic: 320  Message: 344

Yep, been there. On mine, the Position menu is only available when switched to the RGBS input. Too bad, because a little horizontal phasing touch up on the “Y” input and we’d be done.

Mike

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Robert Atkinson
Sent: Monday, August 08, 2011 1:24 PM
To: hp8924@yahoogroups.com
Subject: RE: [hp8924] Re: Video Monitor - it works

Hi Mike,

There is vertical and horizontal position and size controls available through the menu. There is also a language selection including english.

I'll try the Y input here too.

Robert.

--- On Mon, 8/8/11, Mike, KD7MG <kd7mg@grovesnet.org> wrote:

From: Mike, KD7MG <kd7mg@...>
Subject: RE: [hp8924] Re: Video Monitor - it works
To: hp8924@yahoogroups.com
Date: Monday, 8 August, 2011, 18:47

I got my board in and tried to duplicate what you did, but could not get it to work. I tried different values of capacitors, but only got an occasional “flicker” of the right picture, but it wouldn’t stay on. I’m going to look into either building a small op-amp sync detect circuit or maybe do it right and get an LM1881.

I DID get a beautiful picture when I fed the composite video into the “Y” port on the board, only the left-most part of the picture was cut off and I could not find a way to adjust it. Very close to getting what we need.

Mike, KD7MG

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Robert Atkinson
Sent: Thursday, August 04, 2011 1:33 PM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Re: Video Monitor - it works

Hi,
It's composite video and sync on a BNC at the top left rear panel. The converter has four inputs, Red, Green, Blue and Sync. I connected the video directly to the green input and via a 0.1uF capacitor to the sync input. This is NOT ideal but quickly proved that the unit will work with a 19.2kHz input (It's not in the spec). I'll work on a better sync input

when I get a moment.

Robert G8RPI.

--- On Thu, 4/8/11, willcoele@... <willcoele@...> wrote:

From: willcoele@ameritech.net <willcoele@...>
Subject: [hp8924] Re: Video Monitor - it works
To: hp8924@yahoogroups.com
Date: Thursday, 4 August, 2011, 19:00

Where is the sync output on the 8924?

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Hi,
> The converter board requires separte video (RGB for colour) and sync signals. The 8924C puts out composite video and sync. I'm connecting viadeo and sync to the green video input and coupling the video and sync to the sync inbut with a 0.1uf capacitor.
>
> Robert G8RPI.
>

# 345. Re: [hp8924] Video Monitor - it works [2 Attachments]

Yahoo group: hp8924
Date: 2011-08-10 16:44:40 UTC
From: James H Vernetti
Topic: 320  Message: 345

Did you connect your input to P3 or P11 on the board?
Thanks
Jim wd0ekr

----- Original Message -----
From: Robert Atkinson<mailto:robert8rpi@yahoo.co.uk>
To: hp8924@yahoogroups.com<mailto:hp8924@yahoogroups.com>
Sent: Wednesday, August 03, 2011 12:10 PM
Subject: [hp8924] Video Monitor - it works [2 Attachments]

[Attachment(s)<about:blank#TopText> from Robert Atkinson included below]

Hi all,
The CGA to VGA converter arrived and a quick lash-up shows that it works! see attached.
I bought ebay item 260823902378 which is a Gonbes GBS-8200 available from many suppliers.
http://gonbestechnology.en.ecplaza.net/catalog.asp?DirectoryID=239168&CatalogID=1631901<http://gonbestechnology.en.ecplaza.net/catalog.asp?DirectoryID=239168&CatalogID=1631901>
It requires separate video and sync. I connected the video to the green input and linked it to the sync input with a 0.1uF ceramic cap.
See attached photos (check "attachments" folder if you don't get direct mail)
A bit more work needed, but obviously the chip will sync to more than just CGA,EGA and component.

Robert G8RPI

# 346. Re: [hp8924] Video Monitor - it works

Yahoo group: hp8924
Date: 2011-08-10 17:12:23 UTC
From: Robert Atkinson
Topic: 320  Message: 346

Hi Jim,
I used P3, green and sync. I chose this input as the supplied a lead. The lead has two identical connectors and is intended for use in video games (I repared these in the late 70's). I cut it in two giving two leads to work with. As I understand it, the board auto selects the active input.

Regards,
Robert.

--- On Wed, 10/8/11, James H Vernetti <wd0ekr@...> wrote:

From: James H Vernetti <wd0ekr@...>
Subject: Re: [hp8924] Video Monitor - it works
To: hp8924@yahoogroups.com
Date: Wednesday, 10 August, 2011, 17:44

□

Did you connect your input to P3 or P11 on the board?
Thanks
Jim wd0ekr

----- Original Message -----
From: Robert Atkinson
To: hp8924@yahoogroups.com
Sent: Wednesday, August 03, 2011 12:10
PM
Subject: [hp8924] Video Monitor - it
works [2 Attachments]

Hi all,
The CGA to VGA converter arrived and a quick
lash-up shows that it works! see attached.
I bought ebay item 260823902378 which is a Gonbes GBS-8200 available
from many suppplier s.
http://gonbestechnology.en.ecplaza.net/catalog.asp?DirectoryID=239168&CatalogID=1631901
It
requires separate video and sync. I connected the video to the green
input and linked it to the sync input with a 0.1uF ceramic cap.
See
attached photos (check "attachments" folder if you don't get direct
mail)
A bit more work needed, but obviously the chip will sync to
more than just CGA,EGA and component.

Robert
G8RPI

# 347. Re: Video Monitor - it works

Yahoo group: hp8924
Date: 2011-08-12 04:14:54 UTC
From: willcoele@ameritech.net
Topic: 320  Message: 347

I uploaded a photo in the Photos section showing my Monitor with the converter connected.

I couldn't get the any signal using the .1 capacitor and I was unable to open the Geometry menu. I was able to see something that looked a video signal with the horizontal and vertical hold control misadjusted when I set the screen resolution. For you youngsters, a Horizotal and Vertical control was something you had to adjust on your 1960's TV.

Nothing worked until I added an additional circuit but I might make some people mad! Using an LM393 comparator, a 20K trim pot, a 1k resistor and the .1 capacitor (that didn't work), I made a sync separator circuit. I adjusted the pot until I got the sync pulses on my oscilloscope. I have an Agilent DSOX2024 that has a video sync option and as soon as I adjusted the sync seperator, the scope locked in on the sync pulses. I connected my sync separator the the sync input on the card and everything functioned correctly. The set button allowed me to toggle through the inputs RGBHV, YPBPR and CGA and as soon as it selected CGA, the picture popped in.

So that the settings can be saved, does anyone know if one of the connectors is a battery backup?

# 348. Re: [hp8924] Re: Video Monitor - it works

Yahoo group: hp8924
Date: 2011-08-12 06:26:34 UTC
From: Robert Atkinson
Topic: 320  Message: 348

Hi Will,
Great work. I don't know why mine worked first time with no sync separator. I just connected it and pused the autoset button.
Ias far as I can tell from online comments the settings are non-volatile (EEPROM or Flash). This makes sense as the boards are desigined to be fitted inside machines. Some users have reported that the settingins did not save the first time, but were OK on a later try.

Robert G8RPI.

--- On Fri, 12/8/11, willcoele@... <willcoele@...> wrote:

From: willcoele@... <willcoele@...>
Subject: [hp8924] Re: Video Monitor - it works
To: hp8924@yahoogroups.com
Date: Friday, 12 August, 2011, 5:14

I uploaded a photo in the Photos section showing my Monitor with the converter connected.

I couldn't get the any signal using the .1 capacitor and I was unable to open the Geometry menu. I was able to see something that looked a video signal with the horizontal and vertical hold control misadjusted when I set the screen resolution. For you youngsters, a Horizotal and Vertical control was something you had to adjust on your 1960's TV.

Nothing worked until I added an additional circuit but I might make some people mad! Using an LM393 comparator, a 20K trim pot, a 1k resistor and the .1 capacitor (that didn't work), I made a sync separator circuit. I adjusted the pot until I got the sync pulses on my oscilloscope. I have an Agilent DSOX2024 that has a video sync option and as soon as I adjusted the sync seperator, the scope locked in on the sync pulses. I connected my sync separator the the sync input on the card and everything functioned correctly. The set button allowed me to toggle through the inputs RGBHV, YPBPR and CGA and as soon as it selected CGA, the picture popped in.

So that the settings can be saved, does anyone know if one of the connectors is a battery backup?

# 349. Re: [hp8924] Re: Video Monitor - it works

Yahoo group: hp8924
Date: 2011-08-12 12:46:57 UTC
From: James H Vernetti
Topic: 320  Message: 349

Would you mind sharing a schematic of your sync separator circuit and its connections to the board?

thanks
Jim wd0ekr

----- Original Message -----
From: willcoele@...<mailto:willcoele@...>
To: hp8924@yahoogroups.com<mailto:hp8924@yahoogroups.com>
Sent: Thursday, August 11, 2011 10:14 PM
Subject: [hp8924] Re: Video Monitor - it works

I uploaded a photo in the Photos section showing my Monitor with the converter connected.

I couldn't get the any signal using the .1 capacitor and I was unable to open the Geometry menu. I was able to see something that looked a video signal with the horizontal and vertical hold control misadjusted when I set the screen resolution. For you youngsters, a Horizotal and Vertical control was something you had to adjust on your 1960's TV.

Nothing worked until I added an additional circuit but I might make some people mad! Using an LM393 comparator, a 20K trim pot, a 1k resistor and the .1 capacitor (that didn't work), I made a sync separator circuit. I adjusted the pot until I got the sync pulses on my oscilloscope. I have an Agilent DSOX2024 that has a video sync option and as soon as I adjusted the sync seperator, the scope locked in on the sync pulses. I connected my sync separator the the sync input on the card and everything functioned correctly. The set button allowed me to toggle through the inputs RGBHV, YPBPR and CGA and as soon as it selected CGA, the picture popped in.

So that the settings can be saved, does anyone know if one of the connectors is a battery backup?

# 350. Re: Video Monitor - it works

Yahoo group: hp8924
Date: 2011-08-12 19:41:12 UTC
From: willcoele@ameritech.net
Topic: 320  Message: 350

I'm very busy now but I'll try to draw a schematic this weekend using Visio and convert it to a pdf file.

--- In hp8924@yahoogroups.com, "James H Vernetti" <wd0ekr@...> wrote:
>
> Would you mind sharing a schematic of your sync separator circuit and its connections to the board?
>
> thanks
> Jim wd0ekr
>
>
> ----- Original Message -----
> From: willcoele@...<mailto:willcoele@...>
> To: hp8924@yahoogroups.com<mailto:hp8924@yahoogroups.com>
> Sent: Thursday, August 11, 2011 10:14 PM
> Subject: [hp8924] Re: Video Monitor - it works
>
>
>
>
>
> I uploaded a photo in the Photos section showing my Monitor with the converter connected.
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> I couldn't get the any signal using the .1 capacitor and I was unable to open the Geometry menu. I was able to see something that looked a video signal with the horizontal and vertical hold control misadjusted when I set the screen resolution. For you youngsters, a Horizotal and Vertical control was something you had to adjust on your 1960's TV.
>
> Nothing worked until I added an additional circuit but I might make some people mad! Using an LM393 comparator, a 20K trim pot, a 1k resistor and the .1 capacitor (that didn't work), I made a sync separator circuit. I adjusted the pot until I got the sync pulses on my oscilloscope. I have an Agilent DSOX2024 that has a video sync option and as soon as I adjusted the sync seperator, the scope locked in on the sync pulses. I connected my sync separator the the sync input on the card and everything functioned correctly. The set button allowed me to toggle through the inputs RGBHV, YPBPR and CGA and as soon as it selected CGA, the picture popped in.
>
> So that the settings can be saved, does anyone know if one of the connectors is a battery backup?
>

# 351. New file uploaded to hp8924

Yahoo group: hp8924
Date: 2011-08-13 00:50:04 UTC
From: hp8924@yahoogroups.com
Topic: 31  Message: 351

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hp8924
group.

File : /SyncSeparator.pdf
Uploaded by : willcoele@... <willcoele@...>
Description : 19.2 composite to VGA Sync Separator

You can access this file at the URL:
http://groups.yahoo.com/group/hp8924/files/SyncSeparator.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

willcoele@... <willcoele@...>

# 352. GBS 8200 Converter - A few mods that are needed.

Yahoo group: hp8924
Date: 2011-08-13 04:26:34 UTC
From: willcoele@ameritech.net
Topic: 320  Message: 352

In my Schematic I show a the LM393 connected to a 5V supply. Do this instead! Connect the LM393 power to the on board 3.2v supply. I tacked a wire to R1, a zero ohm resistor near the crystal. Parallel a 50K ohm, 0603 resistor across C29 (Blue), C32 (Green), C33 (sync) and C36 (Red). For some reason the Chinese engineers cap coupled the RGB and sync to the ASIC inputs. Over time a DC voltage on the input will drift and the monitor will change colors and the screen will eventually fade. The capacitors are located in the row of components between the 3 pots and the asic.

--- In hp8924@yahoogroups.com, "willcoele@..." <willcoele@...> wrote:
>
>
> I'm very busy now but I'll try to draw a schematic this weekend using Visio and convert it to a pdf file.
>
> --- In hp8924@yahoogroups.com, "James H Vernetti" <wd0ekr@> wrote:
> >
> > Would you mind sharing a schematic of your sync separator circuit and its connections to the board?
> >
> > thanks
> > Jim wd0ekr
> >
> >
> > ----- Original Message -----
> > From: willcoele@<mailto:willcoele@>
> > To: hp8924@yahoogroups.com<mailto:hp8924@yahoogroups.com>
> > Sent: Thursday, August 11, 2011 10:14 PM
> > Subject: [hp8924] Re: Video Monitor - it works
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> >
> > I uploaded a photo in the Photos section showing my Monitor with the converter connected.
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> > I couldn't get the any signal using the .1 capacitor and I was unable to open the Geometry menu. I was able to see something that looked a video signal with the horizontal and vertical hold control misadjusted when I set the screen resolution. For you youngsters, a Horizotal and Vertical control was something you had to adjust on your 1960's TV.
> >
> > Nothing worked until I added an additional circuit but I might make some people mad! Using an LM393 comparator, a 20K trim pot, a 1k resistor and the .1 capacitor (that didn't work), I made a sync separator circuit. I adjusted the pot until I got the sync pulses on my oscilloscope. I have an Agilent DSOX2024 that has a video sync option and as soon as I

adjusted the sync seperator, the scope locked in on the sync pulses. I connected my sync separator the the sync input on the card and everything functioned correctly. The set button allowed me to toggle through the inputs RGBHV, YPBPR and CGA and as soon as it selected CGA, the picture popped in.
> >
> > So that the settings can be saved, does anyone know if one of the connectors is a battery backup?
> >
>

# 353. Re: [hp8924] GBS 8200 Converter - A few mods that are needed.

Yahoo group: hp8924
Date: 2011-08-13 11:50:37 UTC
From: James H Vernetti
Topic: 320  Message: 353

Thank you very much for your time and effort

Jim wd0ekr

----- Original Message -----
From: willcoele@...<mailto:willcoele@ameritech.net>
To: hp8924@yahoogroups.com<mailto:hp8924@yahoogroups.com>
Sent: Friday, August 12, 2011 10:26 PM
Subject: [hp8924] GBS 8200 Converter - A few mods that are needed.

In my Schematic I show a the LM393 connected to a 5V supply. Do this instead! Connect the LM393 power to the on board 3.2v supply. I tacked a wire to R1, a zero ohm resistor near the crystal. Parallel a 50K ohm, 0603 resistor across C29 (Blue), C32 (Green), C33 (sync) and C36 (Red). For some reason the Chinese engineers cap coupled the RGB and sync to the ASIC inputs. Over time a DC voltage on the input will drift and the monitor will change colors and the screen will eventually fade. The capacitors are located in the row of components between the 3 pots and the asic.

--- In hp8924@yahoogroups.com<mailto:hp8924%40yahoogroups.com>, "willcoele@..."
<willcoele@...> wrote:
>
>
> I'm very busy now but I'll try to draw a schematic this weekend using Visio and convert it to a pdf file.
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> --- In hp8924@yahoogroups.com<mailto:hp8924%40yahoogroups.com>, "James H Vernetti"
<wd0ekr@> wrote:
> >
> > Would you mind sharing a schematic of your sync separator circuit and its connections to the board?
> >
> > thanks
> > Jim wd0ekr
> >
> >
> > ----- Original Message -----
> > From: willcoele@<mailto:willcoele@>
> > To: hp8924@yahoogroups.com<mailto:hp8924%40yahoogroups.com><mailto:hp8924@yahoogroups.com<mailto:hp8924%40yahoogroups.com>>
> > Sent: Thursday, August 11, 2011 10:14 PM
> > Subject: [hp8924] Re: Video Monitor - it works
> >
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> > I uploaded a photo in the Photos section showing my Monitor with the converter connected.
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> >
> > So that the settings can be saved, does anyone know if one of the connectors is a battery backup?
> >
>

# 354. New file uploaded to hp8924

Yahoo group: hp8924
Date: 2011-08-13 22:19:23 UTC
From: hp8924@yahoogroups.com
Topic: 31  Message: 354

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hp8924
group.

File : /8200 Manual.pdf
Uploaded by : willcoele@... <willcoele@...>
Description : GBS 8200 User Manual

You can access this file at the URL:
http://groups.yahoo.com/group/hp8924/files/8200%20Manual.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

willcoele@... <willcoele@...>

# 355. Re: GBS 8200 Converter - A few mods that are needed.

Yahoo group: hp8924
Date: 2011-08-14 00:17:42 UTC
From: willcoele@ameritech.net
Topic: 320  Message: 355

I uploaded a few pictures in the Photos section of my GBS 8200 modifications.

--- In hp8924@yahoogroups.com, "James H Vernetti" <wd0ekr@...> wrote:
>
> Thank you very much for your time and effort
>
> Jim wd0ekr
>
>
> ----- Original Message -----
> From: willcoele@...<mailto:willcoele@...>
> To: hp8924@yahoogroups.com<mailto:hp8924@yahoogroups.com>
> Sent: Friday, August 12, 2011 10:26 PM
> Subject: [hp8924] GBS 8200 Converter - A few mods that are needed.
>
>

# 356. RE: [hp8924] GBS 8200 Converter - A few mods that are needed.

Yahoo group: hp8924
Date: 2011-08-14 04:01:21 UTC
From: Mike, KD7MG
Topic: 320  Message: 356

While an op-amp approach will certainly work, I'm working on a solution using a $0.99 LM1881. It just needs 1 chip resistor and 3 chip capacitors to play. No pot to set, just assemble and go. Like others, I've been swamped and have had no time to put towards it. Hopefully soon.

Mike

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of willcoele@...
Sent: Friday, August 12, 2011 10:27 PM
To: hp8924@yahoogroups.com
Subject: [hp8924] GBS 8200 Converter - A few mods that are needed.

In my Schematic I show a the LM393 connected to a 5V supply. Do this instead! Connect the LM393 power to the on board 3.2v supply. I tacked a wire to R1, a zero ohm resistor near the crystal. Parallel a 50K ohm, 0603 resistor across C29 (Blue), C32 (Green), C33 (sync) and C36 (Red). For some reason the Chinese engineers cap coupled the RGB and sync to the ASIC inputs. Over time a DC voltage on the input will drift and the monitor will change colors and the screen will eventually fade. The capacitors are located in the row of components between the 3 pots and the asic.

--- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com> , "willcoele@..." <willcoele@...> wrote:
>
>
> I'm very busy now but I'll try to draw a schematic this weekend using Visio and convert it to a pdf file.
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> --- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com> , "James H Vernetti" <wd0ekr@> wrote:
> >
> > Would you mind sharing a schematic of your sync separator circuit and its connections to the board?
> >
> > thanks
> > Jim wd0ekr
> >
> >
> > ----- Original Message -----
> > From: willcoele@<mailto:willcoele@>
> > To: hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com> <mailto:hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com> >
> > Sent: Thursday, August 11, 2011 10:14 PM
> > Subject: [hp8924] Re: Video Monitor - it works
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> > I uploaded a photo in the Photos section showing my Monitor with the converter connected.
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> > I couldn't get the any signal using the .1 capacitor and I was unable to open the Geometry menu. I was able to see something that looked a video signal with the horizontal and vertical hold control misadjusted when I set the screen resolution. For you youngsters, a Horizotal and Vertical control was something you had to adjust on your 1960's TV.
> >
> > Nothing worked until I added an additional circuit but I might make some people mad! Using an LM393 comparator, a 20K trim pot, a 1k resistor and the .1 capacitor (that didn't work), I made a sync separator circuit. I adjusted the pot until I got the sync pulses on my oscilloscope. I have an Agilent DSOX2024 that has a video sync option and as soon as I adjusted the sync seperator, the scope locked in on the sync pulses. I connected my sync separator the the sync input on the card and everything functioned correctly. The set button allowed me to toggle through the inputs RGBHV, YPBPR and CGA and as soon as it selected CGA, the picture popped in.
> >
> > So that the settings can be saved, does anyone know if one of the connectors is a battery backup?
> >
>

# 357. Re: GBS 8200 Converter - A few mods that are needed.

Yahoo group: hp8924
Date: 2011-08-14 12:41:50 UTC
From: willcoele@ameritech.net
Topic: 320  Message: 357

Mike,

I thought of doing the same thing but I don't have an LM1881. I will try it in on a board that I'm planing that will have 3 video drivers and the sync seperator. For the most part, the LM1881 produces the same signal as my LM393 comparator. Internally the LM1881 has a comparator with an internal reference.

--- In hp8924@yahoogroups.com, "Mike, KD7MG" <kd7mg@...> wrote:
>
> While an op-amp approach will certainly work, I'm working on a solution
> using a $0.99 LM1881. It just needs 1 chip resistor and 3 chip capacitors to
> play. No pot to set, just assemble and go. Like others, I've been swamped
> and have had no time to put towards it. Hopefully soon.
>
> Mike
>
>

# 358. RE: [hp8924] Re: GBS 8200 Converter - A few mods that are needed.

Yahoo group: hp8924
Date: 2011-08-14 17:54:13 UTC
From: Mike, KD7MG
Topic: 320  Message: 358

Will,

You're exactly right. The net result is the same sync waveform output. It's just the LM1881 allows for a cheap, "no fuss" solution. I was planning on making a tiny SMT "piggyback" PCB to handle the sync that would attach in an open area on the 8200/8220 board with a dab of hot glue. Total cost somewhere around $3.

OK, here's a silly question.
Anyone know what make/model connector P11 is (the 8-pin header right behind the "VGA"-style input connector) and/or what will mate with it? I've searched online quite a bit and found many that were close, but they were either too big, the keys wouldn't quite line up, or something else was wrong. Anyway, I would like to use that connector, if I can find the right mate for it.

Thanks,
Mike

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of willcoele@...
Sent: Sunday, August 14, 2011 6:42 AM
To: hp8924@yahoogroups.com
Subject: [hp8924] Re: GBS 8200 Converter - A few mods that are needed.

Mike,

I thought of doing the same thing but I don't have an LM1881. I will try it in on a board that I'm planing that will have 3 video drivers and the sync seperator. For the most part, the LM1881 produces the same signal as my LM393 comparator. Internally the LM1881 has a comparator with an internal reference.

--- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com> , "Mike, KD7MG" <kd7mg@...> wrote:
>
> While an op-amp approach will certainly work, I'm working on a solution
> using a $0.99 LM1881. It just needs 1 chip resistor and 3 chip capacitors to
> play. No pot to set, just assemble and go. Like others, I've been swamped
> and have had no time to put towards it. Hopefully soon.
>
> Mike

# 359. Re: GBS 8200 Converter - A few mods that are needed.

Yahoo group: hp8924
Date: 2011-08-14 21:08:52 UTC
From: willcoele@ameritech.net
Topic: 320  Message: 359

K=Mike,

The P11 connector is included with the board.

--- In hp8924@yahoogroups.com, "Mike, KD7MG" <kd7mg@...> wrote:
>
> Will,
>
> You're exactly right. The net result is the same sync waveform output. It's
> just the LM1881 allows for a cheap, "no fuss" solution. I was planning on
> making a tiny SMT "piggyback" PCB to handle the sync that would attach in an
> open area on the 8200/8220 board with a dab of hot glue. Total cost
> somewhere around $3.
>
>

# 360. GBS 8200 Some More Mods!

Yahoo group: hp8924
Date: 2011-08-14 22:23:09 UTC
From: willcoele@ameritech.net
Topic: 360  Message: 360

I noticed that after I added the 50K resistors and fed the composite into any of the three color inputs, there was a red, blue or green raster, that is, the background isn't totally black. I added a 33K resistor to ground on the ASIC side of C32. The 50K resistor is still in place. This changed the DC bias and now the background is totally black. You can use a 10K resistor but it will darken the foreground. Don't confuse this adjustment with the three pots. The pots are used to adjust the overall video level and have little effect on the background.

You could probably use a 50k or a 100K Pot with the CW pin connected to ground and the CCW pin connected to the 3.2v supply. Then the 50K, 0603 resistors could be removed. The pot can be used to adjust the black level.

# 361. Re: GBS 8200 Some More Mods!

Yahoo group: hp8924
Date: 2011-08-14 22:57:44 UTC
From: willcoele@ameritech.net
Topic: 360  Message: 361

I uploaded two more photos in the Photo section showing the rastor modification and the Blue/Green Screen after the rastor mod. After connecting the blue and green wires together I'm begining to like that color combination :-)

--- In hp8924@yahoogroups.com, "willcoele@..." <willcoele@...> wrote:
>
> I noticed that after I added the 50K resistors and fed the composite into any of the three color inputs, there was a red, blue or green raster, that is, the background isn't totally black. I added a 33K resistor to ground on the ASIC side of C32. The 50K resistor is still in place. This changed the DC bias and now the background is totally black. You can use a 10K resistor but it will darken the foreground. Don't confuse this adjustment with the three pots. The pots are used to adjust the overall video level and have little effect on the background.
>
> You could probably use a 50k or a 100K Pot with the CW pin connected to ground and the CCW pin connected to the 3.2v supply. Then the 50K, 0603 resistors could be removed. The pot can be used to adjust the black level.
>

# 362. RE: [hp8924] Re: GBS 8200 Converter - A few mods that are needed.

Yahoo group: hp8924
Date: 2011-08-15 00:40:55 UTC
From: Mike, KD7MG
Topic: 320  Message: 362

Grrr. My board only included the big P3 (5-wire) cable and the 2-pin power cable, not any of the others. Guess I'll have to contact Gonbes directly and ask them what kind of @#$% Chinese connector they used. They sure aren't built around any "standard" Amp, Molex, etc. design that I know of. Nor are they carried by Allied, Newark, Jameco, Mouser, or any other parts houses that I searched through.

Mike

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of willcoele@...
Sent: Sunday, August 14, 2011 3:09 PM
To: hp8924@yahoogroups.com
Subject: [hp8924] Re: GBS 8200 Converter - A few mods that are needed.

K=Mike,

The P11 connector is included with the board.

--- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com> , "Mike, KD7MG" <kd7mg@...> wrote:
>
> Will,
>
> You're exactly right. The net result is the same sync waveform output. It's
> just the LM1881 allows for a cheap, "no fuss" solution. I was planning on
> making a tiny SMT "piggyback" PCB to handle the sync that would attach in an
> open area on the 8200/8220 board with a dab of hot glue. Total cost
> somewhere around $3.

# 363. Re: GBS 8200 Converter - A few mods that are needed.

Yahoo group: hp8924
Date: 2011-08-15 00:49:00 UTC
From: willcoele@ameritech.net
Topic: 320  Message: 363

you cann have my connector, I don't need it. I did cut some wires short but you can splice on more wire if you need it longer.

--- In hp8924@yahoogroups.com, "Mike, KD7MG" <kd7mg@...> wrote:
>
> Grrr. My board only included the big P3 (5-wire) cable and the 2-pin power
> cable, not any of the others. Guess I'll have to contact Gonbes directly and
> ask them what kind of @#$% Chinese connector they used. They sure aren't
> built around any "standard" Amp, Molex, etc. design that I know of. Nor are
> they carried by Allied, Newark, Jameco, Mouser, or any other parts houses
> that I searched through.
>
> Mike
>
>
>
> From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of
> willcoele@...
> Sent: Sunday, August 14, 2011 3:09 PM
> To: hp8924@yahoogroups.com
> Subject: [hp8924] Re: GBS 8200 Converter - A few mods that are needed.
>
>
>
>
>
> K=Mike,
>
> The P11 connector is included with the board.
>
>
> --- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com> , "Mike,
> KD7MG" <kd7mg@> wrote:
> >
> > Will,
> >
> > You're exactly right. The net result is the same sync waveform output.
> It's
> > just the LM1881 allows for a cheap, "no fuss" solution. I was planning on
> > making a tiny SMT "piggyback" PCB to handle the sync that would attach in
> an
> > open area on the 8200/8220 board with a dab of hot glue. Total cost
> > somewhere around $3.
>

# 364. Gonbes GBS-8200 Detailed Web site

Yahoo group: hp8924
Date: 2011-08-18 02:25:21 UTC
From: willcoele@ameritech.net
Topic: 364  Message: 364

I found that this web page has a wealth of information.
It's geared towards the Atari Game computer but the
information can apply here.

http://info-coach.fr/atari/hardware/video.php

Jack WA9FVP

# 366. Re: [hp8924] Problems After Cleaning Unit -- Error Messages and No Audio

Yahoo group: hp8924
Date: 2011-08-26 02:15:15 UTC
From: MICHAEL SMITH
Topic: 366  Message: 366
Attachments: 1 described; binary payloads are missing from this source WARC

Sounds like might not be seated good and it having problems seeing all of the installed cards.

Mike / KB8WLW

On Aug 25, 2011, at 7:13 PM, radioman762 wrote:

> I just finished cleaning my 8924C because it was running hot. I also decided to install a new monitor assembly that I had purchased a few years ago but never got around to installing.
>
> The cleaning process involved removing each of the modules, blowing out the considerable number of dust bunnies with low pressure compressed air (without removing the shields, putting a very small amount of Deoxit on each connector, and reinstalling the modules.
>
> A similar process was used on all the bare PC boards.
>
> Now, there seem to be problems -- although the new monitor assembly works fine.
>
> The initial self-test reports an error code of 0200. Next, it tells me that it can't load the previously stored configuration because the options have been changed.
>
> There is no audio output, although I do get beeps through the speaker. I have tried various things, including trying to receive a local FM station. The squelch control seems to be functioning as it gates the frequency error.
>
> I suspect that it is something simple, since it worked before.
>
> Does anyone have any pointers.
>
> Thanks.
>
> Fred
> W6WAW
>
>

# 367. Re: [hp8924] Problems After Cleaning Unit -- Error Messages and No Audio [1 Attachment]

Yahoo group: hp8924
Date: 2011-08-26 03:07:50 UTC
From: fwbray@mminternet.com
Topic: 366  Message: 367

Yes, that was it! After reseating everything I still had the problem.

Then I found the key to decode the LED flashes and found the board. I deleted my post but it had already gone to the list.

Thanks for the help.
Sent from my Verizon Wireless BlackBerry

-----Original Message-----
From: MICHAEL SMITH <kb8wlw@cox.net>
Sender: hp8924@yahoogroups.com
Date: Thu, 25 Aug 2011 22:15:15
To: <hp8924@yahoogroups.com>
Reply-To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Problems After Cleaning Unit -- Error Messages and No Audio [1 Attachment]

Sounds like might not be seated good and it having problems seeing all of the installed cards.

Mike / KB8WLW

On Aug 25, 2011, at 7:13 PM, radioman762 wrote:

> I just finished cleaning my 8924C because it was running hot. I also decided to install a new monitor assembly that I had purchased a few years ago but never got around to installing.
>
> The cleaning process involved removing each of the modules, blowing out the considerable number of dust bunnies with low pressure compressed air (without removing the shields, putting a very small amount of Deoxit on each connector, and reinstalling the modules.
>
> A similar process was used on all the bare PC boards.
>
> Now, there seem to be problems -- although the new monitor assembly works fine.
>
> The initial self-test reports an error code of 0200. Next, it tells me that it can't load the previously stored configuration because the options have been changed.
>
> There is no audio output, although I do get beeps through the speaker. I have tried various things, including trying to receive a local FM station. The squelch control seems to be functioning as it gates the frequency error.
>
> I suspect that it is something simple, since it worked before.
>

> Does anyone have any pointers.
>
> Thanks.
>
> Fred
> W6WAW
>
>

# 368. 8924C AUX Connector Pinouts

Yahoo group: hp8924
Date: 2011-08-26 03:44:29 UTC
From: willcoele@ameritech.net
Topic: 368  Message: 368

Does anyone have the pinout list for the AUX Connector. There's no information in any of the documentation.

# 369. Re: [hp8924] 8924C AUX Connector Pinouts

Yahoo group: hp8924
Date: 2011-08-26 11:02:55 UTC
From: MICHAEL SMITH
Topic: 368  Message: 369
Attachments: 2 described; binary payloads are missing from this source WARC

The group seems to bounce my email, so trying again and copying you directly.

KB8WLW

On Aug 25, 2011, at 11:44 PM, willcoele@... wrote:

> Does anyone have the pinout list for the AUX Connector. There's no information in any of the documentation.
>
>

# 370. Re: [hp8924] 8924C AUX Connector Pinouts

Yahoo group: hp8924
Date: 2011-08-29 23:58:48 UTC
From: MICHAEL SMITH
Topic: 368  Message: 370
Attachments: 3 described; binary payloads are missing from this source WARC

From Page 64, 67 and 68 in Reference Guide.

On Aug 29, 2011, at 6:27 PM, willcoele wrote:

> The AUX Control connector. I didn't look on my unit, it's a struggle to remove
> it from the shelf, but I think it's a D9 or D15 connector.
>
>
>
> --
>
> Jack WA9FVP- http://www.willcoele.com/radio_repair
>
>
> From: MICHAEL SMITH
> Sent: Sunday, August 28, 2011 7:06 PM
> To: willcoele
> Subject: Re: [hp8924] 8924C AUX Connector Pinouts
>
>
>
> There is Aux in / out and control, which one?
>
>
>
> On Aug 27, 2011, at 12:35 AM, willcoele wrote:
>
>> Thanks Mike but I ment the AUX connector on the rear panel.
>>
>>
>> --
>>
>> Jack WA9FVP- http://www.willcoele.com/radio_repair
>>
>>
>> From: MICHAEL SMITH
>> Sent: Friday, August 26, 2011 5:02 AM
>> To: hp8924@yahoogroups.com ; willcoele@...
>> Subject: Re: [hp8924] 8924C AUX Connector Pinouts
>>
>> The group seems to bounce my email, so trying again and copying you directly.
>>
>> KB8WLW
>>

>
>
>
>
> There is Aux in / out and control, which one?
>
>
>
> On Aug 27, 2011, at 12:35 AM, willcoele wrote:
>
> > Thanks Mike but I ment the AUX connector on the rear panel.
> >
> >
> > --
> >
> > Jack WA9FVP- http://www.willcoele.com/radio_repair
> >
> >
> > From: MICHAEL SMITH
> > Sent: Friday, August 26, 2011 5:02 AM
> > To: hp8924@yahoogroups.com ; willcoele@...
> > Subject: Re: [hp8924] 8924C AUX Connector Pinouts
> >
> > The group seems to bounce my email, so trying again and copying you directly.
> >
> > KB8WLW
> >
>

# 371. Re: 8924C AUX Connector Pinouts

Yahoo group: hp8924
Date: 2011-08-30 23:43:32 UTC
From: willcoele@ameritech.net
Topic: 368  Message: 371

Hi Michael,

I already saw that in the Reference Guide. I'm looking for information on the other pins. I assume it's a DB15 connector but the only information they give is for pins 6 and 13. If I get time this weekend I'll pull my 8924C off the shelf and look at the connector. If it is a DB15, I'll make a breakout board and check the voltages. I'm looking for a way to power the GSB8200 using switched voltages from the 8924.

--- In hp8924@yahoogroups.com, MICHAEL SMITH <kb8wlw@...> wrote:
>
>
> From Page 64, 67 and 68 in Reference Guide.
>
>
>
>
>
>
>
>
>
> On Aug 29, 2011, at 6:27 PM, willcoele wrote:
>
> > The AUX Control connector. I didn't look on my unit, it's a struggle to remove
> > it from the shelf, but I think it's a D9 or D15 connector.
> >
> >
> >
> > --
> >
> > Jack WA9FVP- http://www.willcoele.com/radio_repair
> >
> >
> > From: MICHAEL SMITH
> > Sent: Sunday, August 28, 2011 7:06 PM
> > To: willcoele
> > Subject: Re: [hp8924] 8924C AUX Connector Pinouts
> >
> >
> >
> > There is Aux in / out and control, which one?
> >
> >
> >
> > On Aug 27, 2011, at 12:35 AM, willcoele wrote:

> >
> >> Thanks Mike but I ment the AUX connector on the rear panel.
> >>
> >>
> >> --
> >>
> >> Jack WA9FVP- http://www.willcoele.com/radio_repair
> >>
> >>
> >> From: MICHAEL SMITH
> >> Sent: Friday, August 26, 2011 5:02 AM
> >> To: hp8924@yahoogroups.com ; willcoele@...
> >> Subject: Re: [hp8924] 8924C AUX Connector Pinouts
> >>
> >> The group seems to bounce my email, so trying again and copying you directly.
> >>
> >> KB8WLW
> >>
> >
> >
> >
> >
> > There is Aux in / out and control, which one?
> >
> >
> >
> > On Aug 27, 2011, at 12:35 AM, willcoele wrote:
> >
> > > Thanks Mike but I ment the AUX connector on the rear panel.
> > >
> > >
> > > --
> > >
> > > Jack WA9FVP- http://www.willcoele.com/radio_repair
> > >
> > >
> > > From: MICHAEL SMITH
> > > Sent: Friday, August 26, 2011 5:02 AM
> > > To: hp8924@yahoogroups.com ; willcoele@...
> > > Subject: Re: [hp8924] 8924C AUX Connector Pinouts
> > >
> > > The group seems to bounce my email, so trying again and copying you directly.
> > >
> > > KB8WLW
> > >
> >
>

# 372. power supply R4 Value

Yahoo group: hp8924
Date: 2011-09-04 15:02:46 UTC
From: jyelmgren
Topic: 372  Message: 372

popped R4 on the main board while troubleshooting low voltage on the standby power supply.

R5 got covered in but looks OK and measures around 21K in circuit.

Thought someone had asked this but maybe it was a different group.

Anyway looks like it is a relatively low value in series with the main switching tranisistor (more or less)

# 373. Re: power supply R4 Value

Yahoo group: hp8924
Date: 2011-09-04 15:57:51 UTC
From: jyelmgren
Topic: 372  Message: 373

was actually able to read the code on one side ...brown blk blk silver brown which translates to a one ohm 1% resistor ...basically a fuse

--- In hp8924@yahoogroups.com, "jyelmgren" <jyelmgren@...> wrote:
>
> popped R4 on the main board while troubleshooting low voltage on the standby power supply.
>
> R5 got covered in but looks OK and measures around 21K in circuit.
>
> Thought someone had asked this but maybe it was a different group.
>
> Anyway looks like it is a relatively low value in series with the main switching tranisistor (more or less)
>

# 374. Re: power supply R4 Value

Yahoo group: hp8924
Date: 2011-09-05 00:25:06 UTC
From: willcoele@ameritech.net
Topic: 372  Message: 374

I assume your working on the power supply for the 8924. I uploaded a "doc" in the files section "repairing the 8924 power supply". If you didn't read, it talks about precautions that you should takeI assume your working on the power supply for the 8924. I uploaded a "doc" in the files section "repairing the 8924 power supply". If you didn't read it, it talks about precautions that you should take before working on it.

--- In hp8924@yahoogroups.com, "jyelmgren" <jyelmgren@...> wrote:
>
> was actually able to read the code on one side ...brown blk blk silver brown which translates to a one ohm 1% resistor ...basically a fuse
>
> --- In hp8924@yahoogroups.com, "jyelmgren" <jyelmgren@> wrote:
> >
> > popped R4 on the main board while troubleshooting low voltage on the standby power supply.
> >
> > R5 got covered in but looks OK and measures around 21K in circuit.
> >
> > Thought someone had asked this but maybe it was a different group.
> >
> > Anyway looks like it is a relatively low value in series with the main switching tranisistor (more or less)
> >
>

# 375. Re: power supply R4 Value

Yahoo group: hp8924
Date: 2011-09-12 01:21:16 UTC
From: jyelmgren
Topic: 372  Message: 375

The data sheet on the PWM IC has a schematic that is in the ballpark for the 15 volt standby power supply with couple of twists.

R4 is a 1 ohm resistor used for the current sense.

dropped a test probe while changing ranges which shorted the pins going to the upright PC board which popped a few other components as well as R4.

Good news is that it's all repaired along with the original problem ( bad caps on the 15v stnby PWM PC board ... typical )

All of the parts were at Digikey though the PWM they stocked was the commercial version and the 8924 had more of a mil-spec vintage.

The BUZ80A power FET is NLA (at least at Digikey ) but they had an equivalent in stock.

--- In hp8924@yahoogroups.com, "willcoele@..." <willcoele@...> wrote:
>
>
> I assume your working on the power supply for the 8924. I uploaded a "doc" in the files section "repairing the 8924 power supply". If you didn't read, it talks about precautions that you should takeI assume your working on the power supply for the 8924. I uploaded a "doc" in the files section "repairing the 8924 power supply". If you didn't read it, it talks about precautions that you should take before working on it.
>
> --- In hp8924@yahoogroups.com, "jyelmgren" <jyelmgren@> wrote:
> >
> > was actually able to read the code on one side ...brown blk blk silver brown which translates to a one ohm 1% resistor ...basically a fuse
> >
> > --- In hp8924@yahoogroups.com, "jyelmgren" <jyelmgren@> wrote:
> > >
> > > popped R4 on the main board while troubleshooting low voltage on the standby power supply.
> > >
> > > R5 got covered in but looks OK and measures around 21K in circuit.
> > >
> > > Thought someone had asked this but maybe it was a different group.
> > >
> > > Anyway looks like it is a relatively low value in series with the main switching tranisistor (more or less)
> > >
> >
>

# 376. Re: 8924C AUX Connector Pinouts - Found it!

Yahoo group: hp8924
Date: 2011-09-16 02:51:14 UTC
From: willcoele@ameritech.net
Topic: 368  Message: 376

Snipped from;

http://www.home.agilent.com/agilent/editorial.jspx?cc=US&lc=eng&ckey=1000004647:epsg:faq&nid=-11143.0.00&id=1000004647:epsg:faq
---
Customer needs pinout information for the Aux Control port on the 8924C rear panel.

The pinout for the AUX CONTROL connector on the rear panel of the 8924C is as follows: Pin 1: GND Pin 2: XLTR_VM_RTN Pin 3: F_PCN_CLK Pin 4: GND Pin 5: S_PCN_CLK Pin 6: M_PCN_E_I Pin 7: PULSE1_PCN Pin 8: GND Pin 9: XLTR_VM Pin 10: F_PCN_E_I Pin 11: F_PCN_DATA Pin 12: S_PCN_E_I Pin 13: S_PCN_DATA Pin 14: GND Pin 15: PULSE2_PCN
---

# 377. Used Monitor Assembly Available

Yahoo group: hp8924
Date: 2011-09-16 15:55:09 UTC
From: radioman762
Topic: 377  Message: 377

Good Morning,

I have recently replaced the monitor assembly in my 8924C. I had purchased a new one several years ago and finally got around to installing it when I did a general internal cleaning of the unit.

The old one is actually in very good shape, with some light burning of the screen which really isn't that noticeable, especially when it is running. It is nice and bright. But for the fact that I already had the new monitor and was well past any return date, I probably would not have changed it.

I would like to sell the assembly that I removed. It would be a definite improvement if you have a badly burnt or dim screen. Swapping out the monitor assembly is easy, but it does require removal of the front panel of the 8924C.

Please contact me off-line if you are interested.

FWB

# 378. 50 ohm or open circuit output

Yahoo group: hp8924
Date: 2011-09-24 14:31:22 UTC
From: Ralph
Topic: 378  Message: 378

I have a new (to me) 8924C and looking over the setup screens and manual for the 8920 (beter manual for non cell phone use).

In it there is a place to set the RF generator section for either output across a 50 ohm load or set it for open circuit voltage.

I know what this means and how it works. My question is what do I set it to so that it will put out the same as most other signal generators ?

The ones that I have used in the past do not have this option. I just want to set it so that it will put out the same voltage into a receiver that my other generators do.

For some reason I am thinking open circuit voltage is the way, but not sure.

# 379. Re: 50 ohm or open circuit output

Yahoo group: hp8924
Date: 2011-09-24 15:46:31 UTC
From: willcoele@ameritech.net
Topic: 378  Message: 379

I assume if you set it for open circuit, the level will drop by 3db. A 50 ohm load will do the same but in a high impedance circuit, there's no 50ohm load.

--- In hp8924@yahoogroups.com, "Ralph" <ku4pt@...> wrote:
>
> I have a new (to me) 8924C and looking over the setup screens and manual for the 8920 (beter manual for non cell phone use).
>
> In it there is a place to set the RF generator section for either output across a 50 ohm load or set it for open circuit voltage.
>
> I know what this means and how it works. My question is what do I set it to so that it will put out the same as most other signal generators ?
>
> The ones that I have used in the past do not have this option. I just want to set it so that it will put out the same voltage into a receiver that my other generators do.
>
> For some reason I am thinking open circuit voltage is the way, but not sure.
>

# 380. RE: [hp8924] 50 ohm or open circuit output

Yahoo group: hp8924
Date: 2011-09-24 18:29:15 UTC
From: Mike, KD7MG
Topic: 378  Message: 380

Most RF signal generators are calibrated into a 50 ohm load, so if you want to match their settings, that's probably where you want to run it.

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Ralph
Sent: Saturday, September 24, 2011 8:31 AM
To: hp8924@yahoogroups.com
Subject: [hp8924] 50 ohm or open circuit output

I have a new (to me) 8924C and looking over the setup screens and manual for the 8920 (beter manual for non cell phone use).

In it there is a place to set the RF generator section for either output across a 50 ohm load or set it for open circuit voltage.

I know what this means and how it works. My question is what do I set it to so that it will put out the same as most other signal generators ?

The ones that I have used in the past do not have this option. I just want to set it so that it will put out the same voltage into a receiver that my other generators do.

# 381. Re: [hp8924] 50 ohm or open circuit output

Yahoo group: hp8924
Date: 2011-09-24 20:11:05 UTC
From: elvin welch
Topic: 378  Message: 381

On 9/24/2011 11:29 AM, Mike, KD7MG wrote:
>
> Most RF signal generators are calibrated into a 50 ohm load, so if you
> want to match their settings, that's probably where you want to run it.
>
> *From:*hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] *On
> Behalf Of *Ralph
> *Sent:* Saturday, September 24, 2011 8:31 AM
> *To:* hp8924@yahoogroups.com
> *Subject:* [hp8924] 50 ohm or open circuit output
>
> Yes, but usually you want to feed a device with 50 ohm input
> impedance so now the gen. output drops to one half the open circuit
> value. My sig. gens. are all set this way.
>
Anon

> I have a new (to me) 8924C and looking over the setup screens and
> manual for the 8920 (beter manual for non cell phone use).
>
> In it there is a place to set the RF generator section for either
> output across a 50 ohm load or set it for open circuit voltage.
>
> I know what this means and how it works. My question is what do I set
> it to so that it will put out the same as most other signal generators ?
>
> The ones that I have used in the past do not have this option. I just
> want to set it so that it will put out the same voltage into a
> receiver that my other generators do.
>
>

# 382. 8924C Wrong RF Levels

Yahoo group: hp8924
Date: 2011-10-05 02:59:48 UTC
From: willcoele@ameritech.net
Topic: 382  Message: 382

While testing sensitivity on a 2 meter rig I discovered that my 8924C RF level is wrong. The 2 meter receiver spec is .18uV @ 12db SINAD but to get 12db SINAD, I had to increase the RF generator level to .38uV. I checked the receiver with my HP 8657B RF generator and .18uV measured 16.5db SINAD on the 8924C.

Here's what strange. If I checked the RF level with my Boonton RF power meter at -50dbm, both generators agree. There appears to be something wrong with the attenuator module below -100dbm.

Any Ideas, anybody?

# 383. Re: 8924C Wrong RF Levels

Yahoo group: hp8924
Date: 2011-10-05 13:10:15 UTC
From: willcoele@ameritech.net
Topic: 382  Message: 383

Never Mind! I found it. In the CONFIG screen, on the lower left side, there's a setting called "RFGen Volts". "emf" was selected. It should be "50 ohm".

--- In hp8924@yahoogroups.com, "willcoele@..." <willcoele@...> wrote:
>
> While testing sensitivity on a 2 meter rig I discovered that my 8924C RF level is wrong. The 2 meter receiver spec is .18uV @ 12db SINAD but to get 12db SINAD, I had to increase the RF generator level to .38uV. I checked the receiver with my HP 8657B RF generator and .18uV measured 16.5db SINAD on the 8924C.
>
> Here's what strange. If I checked the RF level with my Boonton RF power meter at -50dbm, both generators agree. There appears to be something wrong with the attenuator module below -100dbm.
>
> Any Ideas, anybody?
>

# 384. Re: [hp8924] Re: 8924C Wrong RF Levels

Yahoo group: hp8924
Date: 2011-10-05 22:26:30 UTC
From: Ralph Mowery
Topic: 382  Message: 384

I had just received a 8924C a few weeks ago.  I asked a similar question as to which setting to use.
I finally hooked up an older signal generator and decided that the 50 ohm output was the one to use to match the older generator that does not give any options.  Out of several signal generators,  this one is the only one I have seen that gives an option.

From: "willcoele@..." <willcoele@...>
>To: hp8924@yahoogroups.com
>Sent: Wednesday, October 5, 2011 9:10 AM
>Subject: [hp8924] Re: 8924C Wrong RF Levels
>
>Never Mind!  I found it.  In the CONFIG screen, on the lower left side, there's a setting called "RFGen Volts". "emf" was selected.  It should be "50 ohm".
>
>--- In hp8924@yahoogroups.com, "willcoele@..." <willcoele@...> wrote:
>>
>> While testing sensitivity on a 2 meter rig I discovered that my 8924C RF level is wrong.  The 2 meter receiver spec is .18uV @ 12db SINAD but to get 12db SINAD, I had to increase the RF generator level to .38uV.  I checked the receiver with my HP 8657B RF generator and .18uV measured 16.5db SINAD on the 8924C.
>>
>> Here's what strange.  If I checked the RF level with my Boonton RF power meter at -50dbm, both generators agree.  There appears to be something wrong with the attenuator module below -100dbm.
>>
>> Any Ideas, anybody?
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>Yahoo! Groups Links
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# 385. Re: 8924C Wrong RF Levels

Yahoo group: hp8924
Date: 2011-10-06 01:57:51 UTC
From: willcoele@ameritech.net
Topic: 382  Message: 385

I checked other saved set-ups. I have about 20 and the only setting that was wrong, was the one I use for testing 2 meter radios. I saw your post but I never bothered to check my settings until last night.

--- In hp8924@yahoogroups.com, Ralph Mowery <ku4pt@...> wrote:
>
> I had just received a 8924C a few weeks ago.  I asked a similar question as to which setting to use.
> I finally hooked up an older signal generator and decided that the 50 ohm output was the one to use to match the older generator that does not give any options.  Out of several signal generators,  this one is the only one I have seen that gives an option.
>
>
> From: "willcoele@..." <willcoele@...>
> >To: hp8924@yahoogroups.com
> >Sent: Wednesday, October 5, 2011 9:10 AM
> >Subject: [hp8924] Re: 8924C Wrong RF Levels
> >
> >Never Mind!  I found it.  In the CONFIG screen, on the lower left side, there's a setting called "RFGen Volts". "emf" was selected.  It should be "50 ohm".
> >
> >--- In hp8924@yahoogroups.com, "willcoele@" <willcoele@> wrote:
> >>
> >> While testing sensitivity on a 2 meter rig I discovered that my 8924C RF level is wrong.  The 2 meter receiver spec is .18uV @ 12db SINAD but to get 12db SINAD, I had to increase the RF generator level to .38uV.  I checked the receiver with my HP 8657B RF generator and .18uV measured 16.5db SINAD on the 8924C.
> >>
> >> Here's what strange.  If I checked the RF level with my Boonton RF power meter at -50dbm, both generators agree.  There appears to be something wrong with the attenuator module below -100dbm.
> >>
> >> Any Ideas, anybody?
> >>
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> >Yahoo! Groups Links
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# 386. Re: [hp8924] Re: 8924C Wrong RF Levels

Yahoo group: hp8924
Date: 2011-10-06 04:07:30 UTC
From: keith
Topic: 382  Message: 386

Just the line I was thinking along too. I think the Marconi 2955 has a similar way of representing the voltage at the output. Could be to do with the voltage output un-terminated against a terminated output (50 ohm). Not sure why they do it but I guess they have a reason.

From: Ralph Mowery
Sent: Thursday, October 06, 2011 11:26 AM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Re: 8924C Wrong RF Levels

I had just received a 8924C a few weeks ago. I asked a similar question as to which setting to use.
I finally hooked up an older signal generator and decided that the 50 ohm output was the one to use to match the older generator that does not give any options. Out of several signal generators, this one is the only one I have seen that gives an option.

From: "willcoele@..." <willcoele@ameritech.net>
To: hp8924@yahoogroups.com
Sent: Wednesday, October 5, 2011 9:10 AM
Subject: [hp8924] Re: 8924C Wrong RF Levels

Never Mind! I found it. In the CONFIG screen, on the lower left side, there's a setting called "RFGen Volts". "emf" was selected. It should be "50 ohm".

--- In hp8924@yahoogroups.com, "willcoele@..." <willcoele@...> wrote:
>
> While testing sensitivity on a 2 mete r rig I discovered that my 8924C RF level is wrong. The 2 meter receiver spec is .18uV @ 12db SINAD but to get 12db SINAD, I had to increase the RF generator level to .38uV. I checked the receiver with my HP 8657B RF generator and .18uV measured 16.5db SINAD on the 8924C.
>
> Here's what strange. If I checked the RF level with my Boonton RF power meter at -50dbm, both generators agree. There appears to be something wrong with the attenuator module below -100dbm.
>
> Any Ideas, anybody?
>

---

Yahoo! Groups Links

# 387. Re: [hp8924] Re: 8924C Wrong RF Levels

Yahoo group: hp8924
Date: 2011-10-06 04:49:45 UTC
From: keith
Topic: 382  Message: 387

adding that the voltage under load (50 ohm) is often refered to as PD and the no load voltage is called emf which should be twice the PD.

From: keith
Sent: Thursday, October 06, 2011 5:07 PM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Re: 8924C Wrong RF Levels

Just the line I was thinking along too. I think the Marconi 2955 has a similar way of representing the voltage at the output. Could be to do with the voltage output un-terminated against a terminated output (50 ohm). Not sure why they do it but I guess they have a reason.

From: Ralph Mowery
Sent: Thursday, October 06, 2011 11:26 AM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Re: 8924C Wrong RF Levels

I had just received a 8924C a few weeks ago. I asked a similar question as to which setting to use.
I finally hooked up an older signal generator and decided that the 50 ohm output was the one to use to match the older generator that does not give any options. Out of several signal generators, this one is the only one I have seen that gives an option.

From: "willcoele@..." <willcoele@...>
To: hp8924@yahoogroups.com
Sent: Wednesday, October 5, 2011 9:10 AM
Subject: [hp8924] Re: 8924C Wrong RF Levels

Never Mind! I found it. In the CONFIG screen, on the lower left side, there's a setting called "RFGen Volts". "emf" was selected. It should be "50 ohm".

--- In hp8924@yahoogroups.com, "willcoele@..." <willcoele@...> wrote:
>
> While testing sensitivity on a 2 mete r rig I discovered that my 8924C RF level is wrong. The 2 meter receiver spec is .18uV @ 12db SINAD but to get 12db SINAD, I had to increase the RF generator level to .38uV. I checked the receiver with my HP 8657B RF generator and .18uV measured 16.5db SINAD on the 8924C.
>
> Here's what strange. If I checked the RF level with my Boonton RF power meter at -50dbm, both generators agree. There appears to be something wrong with the attenuator module below -100dbm.
>
> Any Ideas, anybody?
>

---

Yahoo! Groups Links

# 388. Re: [hp8924] Re: 8924C Wrong RF Levels

Yahoo group: hp8924
Date: 2011-10-06 06:32:59 UTC
From: Robert Atkinson
Topic: 382  Message: 388

I've experience of this years ago in the aircraft radio workshop. Some radios were specified with "hard" microvolts (50R sig gen) some with "soft". You had to read the spec carefully. If it was a "soft" radio you had to use a 6bB pad if your generator was hard. dBm is always "hard" so it's disapeared in obscurity. Old collins amatur kit was quoted soft so will appear to meet spec on a moden generator even if it's well down on sensistivity. Google "hard or soft microvolts"

Robert G8RPI.

---
From: keith <oldmill@...>
To: hp8924@yahoogroups.com
Sent: Thursday, 6 October 2011, 5:07
Subject: Re: [hp8924] Re: 8924C Wrong RF Levels

Just the line I was thinking along too. I think the Marconi 2955 has a similar way of representing the voltage at the output. Could be to do with the voltage output un-terminated against a terminated output (50 ohm). Not sure why they do it but I guess they have a reason.

From: Ralph Mowery
Sent: Thursday, October 06, 2011 11:26 AM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Re: 8924C Wrong RF Levels

I had just received a 8924C a few weeks ago.  I asked a similar question as to which setting to use.
I finally hooked up an older signal generator and decided that the 50 ohm output was the one to use to match the older generator that does not give any options.  Out of several signal generators,  this one is the only one I have seen that gives an option.

>_____
>From: "willcoele@ameritech.net" <willcoele@...>
>To: hp8924@yahoogroups.com
>Sent: Wednesday, October 5, 2011 9:10 AM
>Subject: [hp8924] Re: 8924C Wrong RF Levels
>
>Never Mind!  I found it.  In the CONFIG screen, on the lower left side, there's a setting called "RFGen Volts". "emf" was selected.  It should be "50 ohm".
>
>--- In hp8924@yahoogroups.com, "willcoele@..." <willcoele@...> wrote:
>>
>> While testing sensitivity on a 2 mete r rig I discovered that my 8924C RF level is wrong.  The 2 meter receiver spec is .18uV @ 12db SINAD but to get 12db SINAD, I had to increase the RF generator level to .38uV.  I checked the receiver with my HP 8657B RF generator and .18uV measured 16.5db SINAD on the 8924C.

>>
>> Here's what strange.  If I checked the RF level with my Boonton RF power meter at -50dbm, both generators agree.  There appears to be something wrong with the attenuator module below -100dbm.
>>
>> Any Ideas, anybody?
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>Yahoo! Groups Links
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# 389. Re: [hp8924] Re: 8924C Wrong RF Levels

Yahoo group: hp8924
Date: 2011-10-06 11:25:45 UTC
From: Robert Atkinson
Topic: 382  Message: 389

Having hit the send button in a rush before work this morning, I did some more research (sorry, googling) and thought I'd got hard and soft the wrong way round.
Some recent sources were at odds with my description. However I found an early Booton reference < http://www.hparchive.com/Boonton/BRC-The-Notebook-03.pdf > that confirmed my memory.
"Hard" microvolts refers to a signal generator with a 50R output impedance, "Soft" or "Easy" to a signal generator with a low (0R) output impedance. I think the reversal came about due to non-RF amplifiers and power supplies being considered "soft" if their output dropped under load. The original RF usage was that it was "easy" to meet the uV spec with a low impedance generator as you did not get the  1/2 voltage (6dB) drop of a 50R generator in series with a 50R load. Stick wirth dBm!

Robert G8RPI

---
From: Robert Atkinson <robert8rpi@...>
To: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
Sent: Thursday, 6 October 2011, 7:32
Subject: Re: [hp8924] Re: 8924C Wrong RF Levels

I've experience of this years ago in the aircraft radio workshop. Some radios were specified with "hard" microvolts (50R sig gen) some with "soft". You had to read the spec carefully. If it was a "soft" radio you had to use a 6bB pad if your generator was hard. dBm is always "hard" so it's disapeared in obscurity. Old collins amatur kit was quoted soft so will appear to meet spec on a moden generator even if it's well down on sensistivity. Google "hard or soft microvolts"

Robert G8RPI.

---
From: keith <oldmill@...>
To: hp8924@yahoogroups.com
Sent: Thursday, 6 October 2011, 5:07
Subject: Re: [hp8924] Re: 8924C Wrong RF Levels

Just the line I was thinking along too. I think the Marconi 2955 has a similar way of representing the voltage at the output. Could be to do with the voltage output un-terminated against a terminated output (50 ohm). Not sure why they do it but I guess they have a reason.

From: Ralph Mowery
Sent: Thursday, October 06, 2011 11:26 AM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Re: 8924C Wrong RF Levels

I had just received a 8924C a few weeks ago.  I asked a similar question as to which setting to use.

I finally hooked up an older signal generator and decided that the 50 ohm output was the one to use to match the older generator that does not give any options.  Out of several signal generators,  this one is the only one I have seen that gives an option.

>_____
>From: "willcoele@..." <willcoele@ameritech.net>
>To: hp8924@yahoogroups.com
>Sent: Wednesday, October 5, 2011 9:10 AM
>Subject: [hp8924] Re: 8924C Wrong RF Levels
>
>Never Mind!  I found it.  In the CONFIG screen, on the lower left side, there's a setting called "RFGen Volts". "emf" was selected.  It should be "50 ohm".
>
>--- In hp8924@yahoogroups.com, "willcoele@..." <willcoele@...> wrote:
>>
>> While testing sensitivity on a 2 mete r rig I discovered that my 8924C RF level is wrong.  The 2 meter receiver spec is .18uV @ 12db SINAD but to get 12db SINAD, I had to increase the RF generator level to .38uV.  I checked the receiver with my HP 8657B RF generator and .18uV measured 16.5db SINAD on the 8924C.
>>
>> Here's what strange.  If I checked the RF level with my Boonton RF power meter at -50dbm, both generators agree.  There appears to be something wrong with the attenuator module below -100dbm.
>>
>> Any Ideas, anybody?
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>Yahoo! Groups Links
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# 390. Re: 8924C Wrong RF Levels

Yahoo group: hp8924
Date: 2011-10-06 16:23:19 UTC
From: willcoele@ameritech.net
Topic: 382  Message: 390

Icom, Kenwood and Yaesu all use different ways of expressing RF levels, I'll upload PDF's to the files section taken from Excel spread sheets. They convert dbu to dbm. Yaesu uses measurements based 0dbu = .5uV and Kenwood uses 0dbu = 1uV. Icom's measurements are based on dbm.

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Having hit the send button in a rush before work this morning, I did some more research (sorry, googling) and thought I'd got hard and soft the wrong way round.
> Some recent sources were at odds with my description. However I found an early Booton reference < http://www.hparchive.com/Boonton/BRC-The-Notebook-03.pdf > that confirmed my memory.
> "Hard" microvolts refers to a signal generator with a 50R output impedance, "Soft" or "Easy" to a signal generator with a low (0R) output impedance. I think the reversal came about due to non-RF amplifiers and power supplies being considered "soft" if their output dropped under load. The original RF usage was that it was "easy" to meet the uV spec with a low impedance generator as you did not get theÂ  1/2 voltage (6dB) drop of a 50R generator in series with a 50R load. Stick wirth dBm!
> Â
> Robert G8RPI
>
>
> _____
> From: Robert Atkinson <robert8rpi@...>
> To: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
> Sent: Thursday, 6 October 2011, 7:32
> Subject: Re: [hp8924] Re: 8924C Wrong RF Levels
>
>
> Â
> I've experience of this years ago in the aircraft radio workshop. Some radios were specified with "hard" microvolts (50R sig gen) some with "soft". You had to read the spec carefully. If it was a "soft" radio you had to use a 6bB pad if your generator was hard.Â dBmÂ is alwaysÂ "hard"Â so it's disapeared in obscurity. Old collins amatur kit was quoted soft so will appear to meet spec on a moden generator even if it's well down on sensistivity. Google "hard or soft microvolts"
> Â
> Robert G8RPI.
>
>
> _____
> From: keith <oldmill@...>
> To: hp8924@yahoogroups.com
> Sent: Thursday, 6 October 2011, 5:07
> Subject: Re: [hp8924] Re: 8924C Wrong RF Levels

>
>
> Â
> Just the line I was thinking along too. I think the Marconi 2955 has a similar way of representing the voltage at the output. Could be to do with the voltage output un-terminated against a terminated output (50 ohm). Not sure why they do it but I guess they have a reason.
>
>
> From: Ralph Mowery
> Sent: Thursday, October 06, 2011 11:26 AM
> To: hp8924@yahoogroups.com
> Subject: Re: [hp8924] Re: 8924C Wrong RF Levels
>
> Â
> I had just received a 8924C a few weeks ago.Â  I asked a similar question as to which setting to use.Â
> I finally hooked up an older signal generator and decided that the 50 ohm output was the one to use to match the older generator that does not give any options.Â  Out of several signal generators,Â  this one is the only one I have seen that gives an option.
> Â
>
>
>
> >_____
> >From: "willcoele@..." <willcoele@...>
> >To: hp8924@yahoogroups.com
> >Sent: Wednesday, October 5, 2011 9:10 AM
> >Subject: [hp8924] Re: 8924C Wrong RF Levels
> >
> >Never Mind!Â  I found it.Â  In the CONFIG screen, on the lower left side, there's a setting called "RFGen Volts". "emf" was selected.Â  It should be "50 ohm".
> >
> >--- In hp8924@yahoogroups.com, "willcoele@" <willcoele@> wrote:
> >>
> >> While testing sensitivity on a 2 mete r rig I discovered that my 8924C RF level is wrong.Â  The 2 meter receiver spec is .18uV @ 12db SINAD but to get 12db SINAD, I had to increase the RF generator level to .38uV.Â  I checked the receiver with my HP 8657B RF generator and .18uV measured 16.5db SINAD on the 8924C.
> >>
> >> Here's what strange.Â  If I checked the RF level with my Boonton RF power meter at -50dbm, both generators agree.Â  There appears to be something wrong with the attenuator module below -100dbm.
> >>
> >> Any Ideas, anybody?
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> >Yahoo! Groups Links
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# 391. New file uploaded to hp8924

Yahoo group: hp8924
Date: 2011-10-06 16:30:35 UTC
From: hp8924@yahoogroups.com
Topic: 31  Message: 391

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hp8924
group.

File : /Kenwood_Icom_Conversion.pdf
Uploaded by : willcoele@... <willcoele@...>
Description : Kenwood, Icom dbu to dbm conversion

You can access this file at the URL:
http://groups.yahoo.com/group/hp8924/files/Kenwood_Icom_Conversion.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

willcoele@... <willcoele@...>

# 392. Re: 8924C Wrong RF Levels

Yahoo group: hp8924
Date: 2011-10-06 18:39:09 UTC
From: willcoele@ameritech.net
Topic: 382  Message: 392

I can't understand why it was calibrated at -30 dbm but at 1uV or -107dbm, the level was off.

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Having hit the send button in a rush before work this morning, I did some more research (sorry, googling) and thought I'd got hard and soft the wrong way round.
> Some recent sources were at odds with my description. However I found an early Booton reference < http://www.hparchive.com/Boonton/BRC-The-Notebook-03.pdf > that confirmed my memory.
> "Hard" microvolts refers to a signal generator with a 50R output impedance, "Soft" or "Easy" to a signal generator with a low (0R) output impedance. I think the reversal came about due to non-RF amplifiers and power supplies being considered "soft" if their output dropped under load. The original RF usage was that it was "easy" to meet the uV spec with a low impedance generator as you did not get theÂ  1/2 voltage (6dB) drop of a 50R generator in series with a 50R load. Stick wirth dBm!
> Â
> Robert G8RPI
>
>

# 393. Re: [hp8924] Re: 8924C Wrong RF Levels

Yahoo group: hp8924
Date: 2011-10-06 20:28:46 UTC
From: Robert Atkinson
Topic: 382  Message: 393

---
From: "willcoele@..." <willcoele@...>
To: hp8924@yahoogroups.com
Sent: Thursday, 6 October 2011, 19:39
Subject: [hp8924] Re: 8924C Wrong RF Levels

Hi,
That is because dBm is always "hard"  i.e. referenced to 50R. The output impedance selection only applies when you select a uV (or dBuV) output level. The selection does not actually change the output impedance, it just adjusts the actual output level by 6db compared to the indicated level.
Regards,
Robert G8RPI.

I can't understand why it was calibrated at -30 dbm but at 1uV or -107dbm, the level was off.

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Having hit the send button in a rush before work this morning, I did some more research (sorry, googling) and thought I'd got hard and soft the wrong way round.
> Some recent sources were at odds with my description. However I found an early Booton reference < http://www.hparchive.com/Boonton/BRC-The-Notebook-03.pdf > that confirmed my memory.
> "Hard" microvolts refers to a signal generator with a 50R output impedance, "Soft" or "Easy" to a signal generator with a low (0R) output impedance. I think the reversal came about due to non-RF amplifiers and power supplies being considered "soft" if their output dropped under load. The original RF usage was that it was "easy" to meet the uV spec with a low impedance generator as you did not get theÂ  1/2 voltage (6dB) drop of a 50R generator in series with a 50R load. Stick wirth dBm!
> Â
> Robert G8RPI
>
>

# 394. 8924E and sweeping a cavity

Yahoo group: hp8924
Date: 2011-10-24 12:01:24 UTC
From: ve3wva
Topic: 394  Message: 394

Hi guys! New to the group and service monitors in general. I bought an HP8924E off ebay last year and just getting around to trying to figure out how to tune my Phelps Dodge/Cellwave 564-4 duplexers with it.

I can get CLOSE... but still end up with some de-sense.

I have ONE HP attenuator 0-12dB in addition to the HP8924E.

My big question is

How to do you set up the 8924E to sweep a range of frequencies?

I would like very much to see the notch/bandpass.

I know how to get a signal out of / in to the service monitor, but the sweep function is killing me!

I ALMOST considered purchasing a SignalHound USB specan/TG but 1,700.00 is not in my budget right now! Plus I don't know if these USB things can hold a candle to what I already have.

Any help would be GREATLY appreciated!

Thanks in advance!

Rusty VE3WVA

# 395. Re: 8924E and sweeping a cavity

Yahoo group: hp8924
Date: 2011-10-24 12:24:55 UTC
From: ve3wva
Topic: 394  Message: 395

--by the way, I forgot to mention my 8924e does have the spectrum analyzer option....

- In hp8924@yahoogroups.com, "ve3wva" <ve3wva@...> wrote:
>
> Hi guys! New to the group and service monitors in general. I bought an HP8924E off ebay last year and just getting around to trying to figure out how to tune my Phelps Dodge/Cellwave 564-4 duplexers with it.
>
> I can get CLOSE... but still end up with some de-sense.
>
> I have ONE HP attenuator 0-12dB in addition to the HP8924E.
>
> My big question is
>
> How to do you set up the 8924E to sweep a range of frequencies?
>
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> I ALMOST considered purchasing a SignalHound USB specan/TG but 1,700.00 is not in my budget right now! Plus I don't know if these USB things can hold a candle to what I already have.
>
> Any help would be GREATLY appreciated!
>
> Thanks in advance!
>
> Rusty VE3WVA
>

# 396. Re: [hp8924] 8924E and sweeping a cavity

Yahoo group: hp8924
Date: 2011-10-24 12:31:22 UTC
From: Rix Seacord
Topic: 394  Message: 396

Rusty
There are a few articles about the 8924 on repeater-builder.com and an
8924c group, as I recall, on Yahoo.com.
I found an excellent writeup on one of the 2 describing the used of the
8924c.
If I can find the ones I have, I'll send it to you.
The 8924 is one heck of a box. I use it for filters, circulators and
receiver alignment. The big thing is make sure its fairly accurate.
Desense could be caused by several different things. We just went
through it with our dstar and it turned out to be poorly made cables
from the xmt side to the cans and a short jumper to the hard line.
Use of the proper cables, high quality double shielded, is an absolute must.
Good luck.

Ewing (Rix) Seacord K2AVP
Putnam County RACES Radio Officer
eseacord@...

845-628-0892 Home
914-262-9186 Cell

I hear and I forget
I see and I remember
I do and I understand

On 10/24/2011 8:01 AM, ve3wva wrote:
>
> Hi guys! New to the group and service monitors in general. I bought an
> HP8924E off ebay last year and just getting around to trying to figure
> out how to tune my Phelps Dodge/Cellwave 564-4 duplexers with it.
>
> I can get CLOSE... but still end up with some de-sense.
>
> I have ONE HP attenuator 0-12dB in addition to the HP8924E.
>
> My big question is
>
> How to do you set up the 8924E to sweep a range of frequencies?
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> things can hold a candle to what I already have.
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> Any help would be GREATLY appreciated!
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> Thanks in advance!
>
> Rusty VE3WVA
>
>

# 397. Re: [hp8924] 8924E and sweeping a cavity

Yahoo group: hp8924
Date: 2011-10-24 13:51:36 UTC
From: Ralph Mowery
Topic: 394  Message: 397

You can go to the Agilent web site and download the information about the 8920b.  This is a similar unit and much of the analog information is the same.

Download the 8920 application guide and it will tell you how to set up the sweep generator.

You basically go to the spectrum analizer screen and with the cursor on the left side of the screen near the bottom, you push in on the knob and over on the bottom right you can select differant things.  Select the Main screen and there are two places to set up the sweep.  One if for the center frequency and the other is the total ammount of sweep displayed.  Say your cavity is for 150 mhz, then set the center for 150 and the range for about 2 mhz .

To really set the duplexer up the best you should use a retrun loss setup, but you can get close by tuning for maximum signals and tuning the notch.

While this artical is not for the 8924, it  may help you understand the tuning of the duplexers.
http://www.bird-technologies.com/products/txrx_manuals/7-9176.pdf

Make sure your connecting cables are double shielded going to the test set, and all the other cables in the repeter system are also.

--- On Mon, 10/24/11, ve3wva <ve3wva@...> wrote:

From: ve3wva <ve3wva@...>
Subject: [hp8924] 8924E and sweeping a cavity
To: hp8924@yahoogroups.com
Date: Monday, October 24, 2011, 8:01 AM

Hi guys! New to the group and service monitors in general. I bought an HP8924E off ebay last year and just getting around to trying to figure out how to tune my Phelps Dodge/Cellwave 564-4 duplexers with it.

I can get CLOSE... but still end up with some de-sense.

I have ONE HP attenuator 0-12dB in addition to the HP8924E.

My big question is

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I ALMOST considered purchasing a SignalHound USB specan/TG but 1,700.00 is not in my budget right now! Plus I don't know if these USB things can hold a candle to what I already have.

Any help would be GREATLY appreciated!

Thanks in advance!

Rusty VE3WVA

# 398. Re: 8924E and sweeping a cavity

Yahoo group: hp8924
Date: 2011-10-24 14:13:47 UTC
From: ve3wva
Topic: 394  Message: 398

--by the way, I forgot to mention my 8924e does have the spectrum analyzer option....

- In hp8924@yahoogroups.com, "ve3wva" <ve3wva@...> wrote:
>
> Hi guys! New to the group and service monitors in general. I bought an HP8924E off ebay last year and just getting around to trying to figure out how to tune my Phelps Dodge/Cellwave 564-4 duplexers with it.
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> Rusty VE3WVA
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# 399. Re: [hp8924] 8924E and sweeping a cavity

Yahoo group: hp8924
Date: 2011-10-24 14:53:45 UTC
From: Tony Brignole
Topic: 394  Message: 399

We had similar problems with leaky and poor quality fittings so we went to 1/4 inch Heliax and very high quality Amphenol fittings and this helped.

----- Original Message -----
From: Rix Seacord
To: hp8924@yahoogroups.com
Sent: Monday, October 24, 2011 7:31 AM
Subject: Re: [hp8924] 8924E and sweeping a cavity

Rusty
There are a few articles about the 8924 on repeater-builder.com and an 8924c group, as I recall, on Yahoo.com.
I found an excellent writeup on one of the 2 describing the used of the 8924c.
If I can find the ones I have, I'll send it to you.
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Use of the proper cables, high quality double shielded, is an absolute must.
Good luck.

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Any help would be GREATLY appreciated!

Thanks in advance!

Rusty VE3WVA

# 400. Re: 8924E and sweeping a cavity

Yahoo group: hp8924
Date: 2011-10-24 15:19:29 UTC
From: Jleikhim
Topic: 394  Message: 400

1) having 3 or 6 db pads on the in and out cables of the test set can help normalize the impedance when tuning up.
2)the notch is most critical, requiring enough signal power and sensitivity to see the bottom of the notch. Sometimes tuning one cavity at a time rather than as a set is best approach.
3) your 8923 should be up to task if you use good double shielded cables and avoid adaptors especially poor ones.
4) if you are satisfied with tuning but still have desensitization, then suspect the antenna,transmission lines and jumpers
5) jumpers from RX and Tx should be double shielded and never clustered together on the rack. Run separately on opposite side rack rails with cable ties
6)measuring system desensitization is tricky, measure first into 50 ohm resistive load, if less than 1 db, then you are ok and should expect less than 1 db from the antenna unless outside noise floor is greater than 1 db in which case you have other concerns.

Sent from my iPod

# 401. Re: 8924E and sweeping a cavity

Yahoo group: hp8924
Date: 2011-10-25 04:08:33 UTC
From: ve3wva
Topic: 394  Message: 401

Thank You all for your input.

I have combed thru everything I can find on Agilent's website, repeater-builder.com and googled the crap out of it, but I am stuck. Nowhere can I find a walk thru on how to set-up the tracking generator/spectrum analyzer for sweeping a range of frequencies.

I can find LOTS of great general info on duplexer tuning, including this group, but I need a bit more specifics on this particular unit.

This project has absolutely consumed ALL (and then some!) of my spare time for the past 3 weeks... my wife and kids say "You DO exist!" when i come in from the shack at 12 - 1 am... I am hearing a 1kHz tone in my sleep!

If there is anyone on the list that has used an HP/Agilent 8924e (preferably)or an 892x to actually sweep a duplexer, to actually SEE the BP/BR trace on the specan... any kind of step - by - step guide on how to set it up would be priceless to me right now.

I have the duplexer tuned for the strongest BP signal and the weakest BR signal (I hope!) but I absolutely need to see it to be sure it's on the money.

I am hoping this unit (the 8924e and myself included:) can actually do it.

Thanks again to one and all!

73 de VE3WVA

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> Sent from my iPod
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# 402. Re: 8924E and sweeping a cavity

Yahoo group: hp8924
Date: 2011-10-25 04:43:24 UTC
From: Colin
Topic: 394  Message: 402

This is based on a HP8921A which I believe is almost the same as the HP8924E

Select the Spectrum Analyser
Under Controls select Main
Set the input to Antenna in
Set the required centre frequency
Set the required span
Set the Ref Level

Now in the Controls section, change to the Generator (I'm at work and not 100% if this is what is is labelled, it is the second option, the other 3 are Main, Auxiliary and Marker)
Select sweep (the generator can be fixed or sweep)
Select the output port to duplexer out
Select the RF level

As this port, the screen should be showing what you want.

You can select Marker under controls and move the marker around for frequency or level measurement.

If it still doesn't work, let me know and I will re-check this once I get home form work.

Colin
Vk2KCM

--- In hp8924@yahoogroups.com, "ve3wva" <ve3wva@...> wrote:
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> >
> > Sent from my iPod
> >
>

# 403. Re: 8924E and sweeping a cavity

Yahoo group: hp8924
Date: 2011-10-25 05:15:03 UTC
From: ve3wva
Topic: 394  Message: 403

---
Thank you Colin....it,s after 1am here now so I will try this tomorrow!
I am currently not using the antenna port...guess I need to?

I did find a blurb about the analog rx test not being available from the front panel on the 8924e where it is on the 8924c....

I have to get some sleep, but I am very anxious to try your suggestion!

A thousand thanks!

I will let you know how I make out!

Rusty

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> Colin
> Vk2KCM
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# 404. Re: [hp8924] Re: 8924E and sweeping a cavity

Yahoo group: hp8924
Date: 2011-10-25 06:24:45 UTC
From: Robert Atkinson
Topic: 394  Message: 404

Hi Rusty,
Colin has it nailed, certainly for the 8924C. Reading the difererences document for the 8924C versus 8924E I'm a little concerned about the lack of "front panel access" to the analog RF generator and duplex testing. This may be an issue for sweeping. If no one else has experience of doing this with an "E" maybe we can do a run through on the phone with me driving my "C" and you driving the "E". Not sure if you could get the functionallity back with a firmware update ( "C" ROM retrofit) to the E. Would have to look at differences in the sevice manual.

In short has anyone used the Spectrum Analyser and Tracking Generator on an "E" model 8924?

Robert G8RPI.

---
From: ve3wva <ve3wva@...>
To: hp8924@yahoogroups.com
Sent: Tuesday, 25 October 2011, 6:15
Subject: [hp8924] Re: 8924E and sweeping a cavity

---
Thank you Colin....it,s after 1am here now so I will try this tomorrow!
I am currently not using the antenna port...guess I need to?

I did find a blurb about the analog rx test not being available from the front panel on the 8924e where it is on the 8924c....

I have to get some sleep, but I am very anxious to try your suggestion!

A thousand thanks!

I will let you know how I make out!

Rusty

In hp8924@yahoogroups.com, "Colin" <vk2kcm@...> wrote:
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> Select the Spectrum Analyser
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> Set the input to Antenna in
> Set the required centre frequency
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> Set the Ref Level
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> Now in the Controls section, change to the Generator (I'm at work and not 100% if this is what is is labelled, it is the second option, the other 3 are Main, Auxiliary and Marker)

> Select sweep (the generator can be fixed or sweep)
> Select the output port to duplexer out
> Select the RF level
>
> As this port, the screen should be showing what you want.
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> You can select Marker under controls and move the marker around for frequency or level measurement.
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> > >
> > > Sent from my iPod
> > >
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# 405. Re: 8924E and sweeping a cavity

Yahoo group: hp8924
Date: 2011-10-25 12:15:05 UTC
From: ve3wva
Topic: 394  Message: 405

Hi Robert
and many many thanks for your input and your offer on the phone call! maybe we should do that for sure.
In the positioning paper citing the differences between the two (8924e vs 8924c)

The HP 8924E does not have front
panel access to general-purpose analog screens such as:
· DUPLEX TEST
· RX TEST
· TX TEST
· RF GEN
· RF ANL
· ACP
· ENCODER
· DECODER

I am certainly encouraged by what they DON'T versus what they DO say... they don't say the RX test isn't there, just that there is no front panel access to it...

It's 8:10 am here and trying to get moving and get the kids fed & off to school. I will be out in the shack/shop within the hour.

So I will be at it shortly.

If there is anyone on list that has swept a cavity with an 8924E I would be grateful for their input!! I hope I didn't buy a proverbial boat anchor!

de VE3WVA

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
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> Hi Rusty,
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> _____
> From: ve3wva <ve3wva@...>
> To: hp8924@yahoogroups.com
> Sent: Tuesday, 25 October 2011, 6:15
> Subject: [hp8924] Re: 8924E and sweeping a cavity
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> > > If there is anyone on the list that has used an HP/Agilent 8924e (preferably)or an 892x to actually sweep a duplexer, to actually SEE the BP/BR trace on the specan... any kind of step - by - step guide on how to set it up would be priceless to me right now.
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> > > I am hoping this unit (the 8924e and myself included:) can actually do it.
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> > > Thanks again to one and all!
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> > > 73 de VE3WVA
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> > >
> > > --- In hp8924@yahoogroups.com, Jleikhim <rhyolite@> wrote:
> > > >
> > > > 1) having 3 or 6 db pads on the in and out cables of the test set can help normalize the impedance when tuning up.
> > > > 2)the notch is most critical, requiring enough signal power and sensitivity to see the bottom of the notch. Sometimes tuning one cavity at a time rather than as a set is best approach.
> > > > 3) your 8923 should be up to task if you use good double shielded cables and avoid adaptors especially poor ones.
> > > > 4) if you are satisfied with tuning but still have desensitization, then suspect the antenna,transmission lines and jumpers
> > > > 5) jumpers from RX and Tx should be double shielded and never clustered together on the rack. Run separately on opposite side rack rails with cable ties

> > > > 6)measuring system desensitization is tricky, measure first into 50 ohm resistive load, if less than 1 db, then you are ok and should expect less than 1 db from the antenna unless outside noise floor is greater than 1 db in which case you have other concerns.
> > > >
> > > > Sent from my iPod
> > > >
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> >
>

# 406. Re: [hp8924] Re: 8924E and sweeping a cavity

Yahoo group: hp8924
Date: 2011-10-25 15:50:47 UTC
From: Rix Seacord
Topic: 394  Message: 406

Rusty
Being retired I have too much time on my hands. At least according to my wife.

I've been trying to find the writeup I mentioned to you earlier. I'm sure that you could get everything up and running with it.
Personaly I don't think using email helps. If you want I could call you at sometime and we could go over this step by step.
One of the first things I found to do was to setup the 8924 for ham use so that on power up the settings we need are taken care of.
This is done by setting up the parameters we need then using the blue key/config entering the setting into memory under the name poweron.
this now becomes your default setup.
By doing so when the 8924 boots up it will be in spectrum analyzer mode, tracking generator, output to duplex, input antenna, rf gen freq around 445mhz and so on.
When you say the front panel does not have access to certain functions, does this mean they don't come up when you press the button??
Later
Rix

On 10/25/2011 8:15 AM, ve3wva wrote:
>
> Hi Robert
> and many many thanks for your input and your offer on the phone call!
> maybe we should do that for sure.
> In the positioning paper citing the differences between the two (8924e
> vs 8924c)
>
> The HP 8924E does not have front
> panel access to general-purpose analog screens such as:
> ? DUPLEX TEST
> ? RX TEST
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>
> I am certainly encouraged by what they DON'T versus what they DO
> say... they don't say the RX test isn't there, just that there is no
> front panel access to it...
>
> It's 8:10 am here and trying to get moving and get the kids fed & off

> to school. I will be out in the shack/shop within the hour.
>
> So I will be at it shortly.
>
> If there is anyone on list that has swept a cavity with an 8924E I
> would be grateful for their input!! I hope I didn't buy a proverbial
> boat anchor!
>
> de VE3WVA
>
> --- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>,
> Robert Atkinson <robert8rpi@...> wrote:
> >
> > Hi Rusty,
> > Colin has it nailed, certainly for the 8924C. Reading the
> difererences document for the 8924C versus 8924E I'm a little
> concerned about the lack of "front panel access" to the analog RF
> generator and duplex testing. This may be an issue for sweeping. If no
> one else has experience of doing this with an "E" maybe we can do a
> run through on the phone with me driving my "C" and you driving the
> "E". Not sure if you could get the functionallity back with a firmware
> update ( "C" ROM retrofit) to the E. Would have to look at differences
> in the sevice manual.
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> > In short has anyone used the Spectrum Analyser and Tracking
> Generator on an? "E"? model 8924?
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> >
> >
> > _____
> > From: ve3wva <ve3wva@...>
> > To: hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>
> > Sent: Tuesday, 25 October 2011, 6:15
> > Subject: [hp8924] Re: 8924E and sweeping a cavity
> >
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> > Thank you Colin....it,s after 1am here now so I will try this tomorrow!
> > I am currently not using the antenna port...guess I need to?
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> > I did find a blurb about the analog rx test not being available from
> the front panel on the 8924e where it is on the 8924c....
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> > I have to get some sleep, but I am very anxious to try your suggestion!
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> > A thousand thanks!

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> > > This is based on a HP8921A which I believe is almost the same as
> the HP8924E
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> > > Select the Spectrum Analyser
> > > Under Controls select Main
> > > Set the input to Antenna in
> > > Set the required centre frequency
> > > Set the required span
> > > Set the Ref Level
> > >
> > > Now in the Controls section, change to the Generator (I'm at work
> and not 100% if this is what is is labelled, it is the second option,
> the other 3 are Main, Auxiliary and Marker)
> > > Select sweep (the generator can be fixed or sweep)
> > > Select the output port to duplexer out
> > > Select the RF level
> > >
> > > As this port, the screen should be showing what you want.
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> > > You can select Marker under controls and move the marker around
> for frequency or level measurement.
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> > > If it still doesn't work, let me know and I will re-check this
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# 407. Re: 8924E and sweeping a cavity

Yahoo group: hp8924
Date: 2011-10-25 22:55:47 UTC
From: ve3wva
Topic: 394  Message: 407

Hi Rix

No it means the button isn't there on the 8924e.

Sounds great about customizing the startup on that unit... save me a lot of button pushing. I have a great guy in England offering to call me and walk me thru a few things too but it's getting a bit late for him to be up over across the pond now I think.

The step by step thing sounds great!

Do you have skype?

If not, I can call you to save your phone bill! If you email me directly with your phone number I will give you a ring when you are free.

My direct email (if you can't see it is my callsign @...

Thanks again! ve3wva is my call by the way!

MUCH APPRECIATED!!

--- In hp8924@yahoogroups.com, Rix Seacord <eseacord@...> wrote:
>
> Rusty
> Being retired I have too much time on my hands. At least according to my
> wife.
>
> I've been trying to find the writeup I mentioned to you earlier. I'm
> sure that you could get everything up and running with it.
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> key/config entering the setting into memory under the name poweron.
> this now becomes your default setup.
> By doing so when the 8924 boots up it will be in spectrum analyzer mode,
> tracking generator, output to duplex, input antenna, rf gen freq around
> 445mhz and so on.
> When you say the front panel does not have access to certain functions,
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# 408. Re: 8924E and sweeping a cavity

Yahoo group: hp8924
Date: 2011-10-25 23:23:17 UTC
From: ve3wva
Topic: 394  Message: 408

HOLY CRAP I CAN SEE IT!!

I switched the input to the antenna port and that seems to have done it!

I will let you guys know how i make out!

I would still like to setup the initial power on params... I will have a look at that and if I can't figure it out I will give a yell back on the list!

THANKS GUYS!

de Rusty

--- In hp8924@yahoogroups.com, "ve3wva" <ve3wva@...> wrote:
>
> Hi Rix
>
> No it means the button isn't there on the 8924e.
>
> Sounds great about customizing the startup on that unit... save me a lot of button pushing. I have a great guy in England offering to call me and walk me thru a few things too but it's getting a bit late for him to be up over across the pond now I think.
>
> The step by step thing sounds great!
>
> Do you have skype?
>
> If not, I can call you to save your phone bill! If you email me directly with your phone number I will give you a ring when you are free.
>
> My direct email (if you can't see it is my callsign @amtelecom.net
>
> Thanks again! ve3wva is my call by the way!
>
> MUCH APPRECIATED!!
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> > > and not 100% if this is what is is labelled, it is the second option,
> > > the other 3 are Main, Auxiliary and Marker)
> > > > > Select sweep (the generator can be fixed or sweep)
> > > > > Select the output port to duplexer out
> > > > > Select the RF level
> > > > >
> > > > > As this port, the screen should be showing what you want.
> > > > >
> > > > > You can select Marker under controls and move the marker around
> > > for frequency or level measurement.
> > > > >
> > > > > If it still doesn't work, let me know and I will re-check this
> > > once I get home form work.
> > > > >
> > > > > Colin
> > > > > Vk2KCM
> > > > >
> > > > >
> > > > > --- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>,
> > > "ve3wva" <ve3wva@> wrote:
> > > > > >
> > > > > >
> > > > > >
> > > > > > Thank You all for your input.
> > > > > >
> > > > > > I have combed thru everything I can find on Agilent's website,
> > > repeater-builder.com and googled the crap out of it, but I am stuck.
> > > Nowhere can I find a walk thru on how to set-up the tracking
> > > generator/spectrum analyzer for sweeping a range of frequencies.
> > > > > >
> > > > > >
> > > > > > I can find LOTS of great general info on duplexer tuning,
> > > including this group, but I need a bit more specifics on this
> > > particular unit.
> > > > > >
> > > > > > This project has absolutely consumed ALL (and then some!) of my
> > > spare time for the past 3 weeks... my wife and kids say "You DO
> > > exist!" when i come in from the shack at 12 - 1 am... I am hearing a
> > > 1kHz tone in my sleep!
> > > > > >

> > > > > > If there is anyone on the list that has used an HP/Agilent 8924e
> > > (preferably)or an 892x to actually sweep a duplexer, to actually SEE
> > > the BP/BR trace on the specan... any kind of step - by - step guide on
> > > how to set it up would be priceless to me right now.
> > > > > >
> > > > > > I have the duplexer tuned for the strongest BP signal and the
> > > weakest BR signal (I hope!) but I absolutely need to see it to be sure
> > > it's on the money.
> > > > > >
> > > > > > I am hoping this unit (the 8924e and myself included:) can
> > > actually do it.
> > > > > >
> > > > > > Thanks again to one and all!
> > > > > >
> > > > > > 73 de VE3WVA
> > > > > >
> > > > > >
> > > > > >
> > > > > > --- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>,
> > > Jleikhim <rhyolite@> wrote:
> > > > > >
> > > > > > > 1) having 3 or 6 db pads on the in and out cables of the test
> > > set can help normalize the impedance when tuning up.
> > > > > > > 2)the notch is most critical, requiring enough signal power
> > > and sensitivity to see the bottom of the notch. Sometimes tuning one
> > > cavity at a time rather than as a set is best approach.
> > > > > > > 3) your 8923 should be up to task if you use good double
> > > shielded cables and avoid adaptors especially poor ones.
> > > > > > > 4) if you are satisfied with tuning but still have
> > > desensitization, then suspect the antenna,transmission lines and jumpers
> > > > > > > 5) jumpers from RX and Tx should be double shielded and never
> > > clustered together on the rack. Run separately on opposite side rack
> > > rails with cable ties
> > > > > > > 6)measuring system desensitization is tricky, measure first
> > > into 50 ohm resistive load, if less than 1 db, then you are ok and
> > > should expect less than 1 db from the antenna unless outside noise
> > > floor is greater than 1 db in which case you have other concerns.
> > > > > >
> > > > > > Sent from my iPod
> > > > > >
> > > > > >
> > > > >
> > > >
> > >
> >
>

# 409. RF tools option

Yahoo group: hp8924
Date: 2011-10-25 23:41:26 UTC
From: Ralph Mowery
Topic: 394  Message: 409

Does anyone know where to find the RF Tool options HP 11807 option 100 for the 8924C ?

Ebay does not seem to have any for sell and other searches do not seem to locate it either.

There seems to be a company That makes some software called RF tools, but I think it is a similar software, but not the one by  HP.  That sells for $ 290 and is not worth it to me just to play with as a ham.
Most things that are done with the software can be done , just the tools make it simpler to setup.

# 410. Re: [hp8924] RF tools option

Yahoo group: hp8924
Date: 2011-10-26 02:41:55 UTC
From: Ralph S. Turk
Topic: 394  Message: 410

Amtronix.com

----- Original Message -----
From: "Ralph Mowery" <ku4pt@yahoo.com>
To: hp8924@yahoogroups.com
Sent: Tuesday, October 25, 2011 4:41:26 PM
Subject: [hp8924] RF tools option

Does anyone know where to find the RF Tool options HP 11807 option 100 for the 8924C ?

Ebay does not seem to have any for sell and other searches do not seem to locate it either.

There seems to be a company That makes some software called RF tools, but I think it is a similar software, but not the one by HP. That sells for $ 290 and is not worth it to me just to play with as a ham.
Most things that are done with the software can be done , just the tools make it simpler to setup.

# 411. Re: [hp8924] RF tools option

Yahoo group: hp8924
Date: 2011-10-26 12:19:17 UTC
From: Tony Brignole
Topic: 394  Message: 411

Rick Bowman at Amtronix sells the RF tools option. It comes on an old style HP disc that the 8924 reads. I bought it several years ago and it is great. I have used it many times.

It is written in HP basic and is a little quirky to get used to but once you do it is great.
You can also get the 8924 or 8920 programming manual and write programs yourself if you are so inclined.

----- Original Message -----
From: Ralph Mowery
To: hp8924@yahoogroups.com
Sent: Tuesday, October 25, 2011 6:41 PM
Subject: [hp8924] RF tools option

Does anyone know where to find the RF Tool options HP 11807 option 100 for the 8924C ?

Ebay does not seem to have any for sell and other searches do not seem to locate it either.

There seems to be a company That makes some software called RF tools, but I think it is a similar software, but not the one by HP. That sells for $ 290 and is not worth it to me just to play with as a ham.
Most things that are done with the software can be done , just the tools make it simpler to setup.

# 412. 8924C Seft test error help

Yahoo group: hp8924
Date: 2011-10-26 21:22:15 UTC
From: capt6d
Topic: 412  Message: 412

Recently I had an error when doing the RF Spectrum analyer tests on my 8924C and would like some info on what might be the cause. I could not find references to this in the manuals.

Below is the test result for the error.

```
RF Input Signal
Lower Upper Actual
Vertical Sensitivity (Vdc) (Vdc) (Vdc)
==================== ===== ===== =====
10 dB/div (Absolute) 1.645 2.176 1.631**
10 db/div (Relative) 0.640 0.960 0.660

** Failure Detected.
Suspect: Spectrum Analyzer Assembly (Medium)
```

1. What does the "Medium" stand for?
2. Is this more of a calibration issue rather than a hardware failure?

All of the functions of the unit work fine for what im using it for, DIY projects and stuff, no commercial applications etc.

Any info would be greatly appreciated.

Thanks

Jay

# 413. Re: RF tools option

Yahoo group: hp8924
Date: 2011-10-28 11:53:02 UTC
From: robert8rpi
Topic: 394  Message: 413

Hi Tony,
When you say an old style HP disk, do you mean a PCMCIA card or a floppy disc. If a disc, what size is it?
Any chance of a listing or a copy?

Robert.

--- In hp8924@yahoogroups.com, "Tony Brignole" <abrigno@...> wrote:
>
> Rick Bowman at Amtronix sells the RF tools option. It comes on an old style HP disc that the 8924 reads. I bought it several years ago and it is great. I have used it many times.
>
> It is written in HP basic and is a little quirky to get used to but once you do it is great.
> You can also get the 8924 or 8920 programming manual and write programs yourself if you are so inclined.
>
> ----- Original Message -----
> From: Ralph Mowery
> To: hp8924@yahoogroups.com
> Sent: Tuesday, October 25, 2011 6:41 PM
> Subject: [hp8924] RF tools option
>
>
>
> Does anyone know where to find the RF Tool options HP 11807 option 100 for the 8924C ?
>
> Ebay does not seem to have any for sell and other searches do not seem to locate it either.
>
> There seems to be a company That makes some software called RF tools, but I think it is a similar software, but not the one by HP. That sells for $ 290 and is not worth it to me just to play with as a ham.
> Most things that are done with the software can be done , just the tools make it simpler to setup.
>

# 414. Re: [hp8924] Re: RF tools option

Yahoo group: hp8924
Date: 2011-10-28 12:03:47 UTC
From: Tony Brignole
Topic: 394  Message: 414

It's a PC-MCIA memory card. The one Amtronix sent me with the RF Tools was Panasonic BN-512HSR-ND from Dig-Key It is a 512 Meg card.

I have been trying to find a way to copy it using the PCMCIA on my laptop but no luck so far. There are many cards of this type available on Ebay with this much or more capacity very cheap. The specilized software to read and write to it is fairly pricey and I haven't found any less that $100 so far.

The total cost if I remember was in the $100 range from Amtronix. It is well worth the investment. I also found an Eagle return loss bridge for $300 that works great up to 1.2 gig.

----- Original Message -----
From: robert8rpi
To: hp8924@yahoogroups.com
Sent: Friday, October 28, 2011 6:53 AM
Subject: [hp8924] Re: RF tools option

Hi Tony,
When you say an old style HP disk, do you mean a PCMCIA card or a floppy disc. If a disc, what size is it?
Any chance of a listing or a copy?

Robert.

--- In hp8924@yahoogroups.com, "Tony Brignole" <abrigno@...> wrote:
>
> Rick Bowman at Amtronix sells the RF tools option. It comes on an old style HP disc that the 8924 reads. I bought it several years ago and it is great. I have used it many times.
>
> It is written in HP basic and is a little quirky to get used to but once you do it is great.
> You can also get the 8924 or 8920 programming manual and write programs yourself if you are so inclined.
>
> ----- Original Message -----
> From: Ralph Mowery
> To: hp8924@yahoogroups.com
> Sent: Tuesday, October 25, 2011 6:41 PM
> Subject: [hp8924] RF tools option
>
>
>
> Does anyone know where to find the RF Tool options HP 11807 option 100 for the 8924C ?
>
> Ebay does not seem to have any for sell and other searches do not seem to locate it

either.
>
> There seems to be a company That makes some software called RF tools, but I think it is a similar software, but not the one by HP. That sells for $ 290 and is not worth it to me just to play with as a ham.
> Most things that are done with the software can be done , just the tools make it simpler to setup.
>

# 415. Re: [hp8924] Re: RF tools option

Yahoo group: hp8924
Date: 2011-10-30 11:43:44 UTC
From: N9LLO@aol.com
Topic: 394  Message: 415

Try using a free program called Memory card explorer. I would love to have a binary file of the 11807 opt 100 stuff to look over.

Chris
N9LLO

In a message dated 10/28/2011 8:03:54 A.M. Eastern Daylight Time, abrigno@... writes:

It's a PC-MCIA memory card. The one Amtronix sent me with the RF Tools was Panasonic BN-512HSR-ND from Dig-Key It is a 512 Meg card.

I have been trying to find a way to copy it using the PCMCIA on my laptop but no luck so far. There are many cards of this type available on Ebay with this much or more capacity very cheap. The specilized software to read and write to it is fairly pricey and I haven't found any less that $100 so far.

The total cost if I remember was in the $100 range from Amtronix. It is well worth the investment. I also found an Eagle return loss bridge for $300 that works great up to 1.2 gig.

----- Original Message -----
From: _robert8rpi_ (mailto:robert8rpi@...)
To: _hp8924@yahoogroups.com_ (mailto:hp8924@yahoogroups.com)
Sent: Friday, October 28, 2011 6:53 AM
Subject: [hp8924] Re: RF tools option

Hi Tony,
When you say an old style HP disk, do you mean a PCMCIA card or a floppy disc. If a disc, what size is it?
Any chance of a listing or a copy?

Robert.

--- In _hp8924@yahoogroups.com_ (mailto:hp8924@...m) , "Tony Brignole" <abrigno@...> wrote:
>
> Rick Bowman at Amtronix sells the RF tools option. It comes on an old style HP disc that the 8924 reads. I bought it several years ago and it is great. I have used it many times.
>
> It is written in HP basic and is a little quirky to get used to but once you do it is great.
> You can also get the 8924 or 8920 programming manual and write programs yourself if you are so inclined.
>

> ----- Original Message -----
> From: Ralph Mowery
> To: _hp8924@yahoogroups.com_ (mailto:hp8924@yahoogroups.com)
> Sent: Tuesday, October 25, 2011 6:41 PM
> Subject: [hp8924] RF tools option
>
>
>
> Does anyone know where to find the RF Tool options HP 11807 option 100
for the 8924C ?
>
> Ebay does not seem to have any for sell and other searches do not seem
to locate it either.
>
> There seems to be a company That makes some software called RF tools,
but I think it is a similar software, but not the one by HP. That sells for $
290 and is not worth it to me just to play with as a ham.
> Most things that are done with the software can be done , just the tools
make it simpler to setup.
>

# 416. Re: [hp8924] Re: RF tools option

Yahoo group: hp8924
Date: 2011-10-30 15:01:45 UTC
From: Robert Atkinson
Topic: 394  Message: 416

Hi Chris,
Unfortunatly Memory Card Explorer is not a free programme. It's owned by ELAN (who make card readers) and is not cheap.

Being as the program is loaded into the Test Sets memory, it should be possible to remove the card and then copy the program to a new card. You might have to do this for each program. Another possibility is a laptop running Linux. The are a lot of disk utilities for Linux.

Robert G8RPI.

---
From: "N9LLO@..." <N9LLO@...>
To: hp8924@yahoogroups.com
Sent: Sunday, 30 October 2011, 11:43
Subject: Re: [hp8924] Re: RF tools option

Try using a free program called Memory card explorer. I would love to have
a binary file of the 11807 opt 100 stuff to look over.
Chris
N9LLO

In a message dated 10/28/2011 8:03:54 A.M. Eastern Daylight Time,
abrigno@... writes:

>It's a PC-MCIA memory card. The one Amtronix sent me with the RF Tools was Panasonic BN-512HSR-ND from Dig-Key It is a 512 Meg card.
>
>I have been trying to find a way to copy it using the PCMCIA on my laptop but no luck so far. There are many cards of this type available on Ebay with this much or more capacity very cheap.  The specilized software to read and write to it is fairly pricey and I haven't found any less that $100 so far.
>
>The total cost if I remember was in the $100 range from Amtronix. It is well worth the investment. I also found an Eagle return loss bridge for $300 that works great up to 1.2 gig.
>
>----- Original Message -----
>>From: robert8rpi
>>To: hp8924@yahoogroups.com
>>Sent: Friday, October 28, 2011 6:53 AM
>>Subject: [hp8924] Re: RF tools option
>>
>>
>>Hi Tony,
>>When you say an old style HP disk, do you mean a PCMCIA card

or a floppy disc. If a disc, what size is it?
>>Any chance of a listing or
a copy?
>>
>>Robert.
>>
>>--- In hp8924@yahoogroups.com, "Tony Brignole" <abrigno@...> wrote:
>>>
>>> Rick Bowman at Amtronix
sells the RF tools option. It comes on an old style HP disc that the 8924
reads. I bought it several years ago and it is great. I have used it many
times.
>>>
>>> It is written in HP basic and is a little quirky to
get used to but once you do it is great.
>>> You can also get the 8924
or 8920 programming manual and write programs yourself if you are so
inclined.
>>>
>>> ----- Original Message -----
>>> From:
Ralph Mowery
>>> To: hp8924@yahoogroups.com
>>>
Sent: Tuesday, October 25, 2011 6:41 PM
>>> Subject: [hp8924] RF tools
option
>>>
>>>
>>>
>>> Does anyone know where to find the
RF Tool options HP 11807 option 100 for the 8924C ?
>>>
>>> Ebay
does not seem to have any for sell and other searches do not seem to locate
it either.
>>>
>>> There seems to be a company That makes some
software called RF tools, but I think it is a similar software, but not the
one by HP. That sells for $ 290 and is not worth it to me just to play with
as a ham.
>>> Most things that are done with the software can be done ,
just the tools make it simpler to setup.
>>>
>>
>>

# 417. Re: [hp8924] Re: RF tools option

Yahoo group: hp8924
Date: 2011-10-30 19:19:38 UTC
From: N9LLO@aol.com
Topic: 394  Message: 417

I should have made it clearer. you can download a 30 trial of memory card explorer.

Chris
N9LLO

In a message dated 10/30/2011 11:01:50 A.M. Eastern Daylight Time, robert8rpi@... writes:

Hi Chris,
Unfortunatly Memory Card Explorer is not a free programme. It's owned by ELAN (who make card readers) and is not cheap.

Being as the program is loaded into the Test Sets memory, it should be possible to remove the card and then copy the program to a new card. You might have to do this for each program. Another possibility is a laptop running Linux. The are a lot of disk utilities for Linux.

Robert G8RPI.

---
From: "N9LLO@..." <N9LLO@...>
To: hp8924@yahoogroups.com
Sent: Sunday, 30 October 2011, 11:43
Subject: Re: [hp8924] Re: RF tools option

Try using a free program called Memory card explorer. I would love to have a binary file of the 11807 opt 100 stuff to look over.

Chris
N9LLO

In a message dated 10/28/2011 8:03:54 A.M. Eastern Daylight Time, abrigno@... writes:

It's a PC-MCIA memory card. The one Amtronix sent me with the RF Tools was Panasonic BN-512HSR-ND from Dig-Key It is a 512 Meg card.

I have been trying to find a way to copy it using the PCMCIA on my laptop but no luck so far. There are many cards of this type available on Ebay with this much or more capacity very cheap. The specilized software to read and write to it is fairly pricey and I haven't found any less that $100 so far.

The total cost if I remember was in the $100 range from Amtronix. It is well worth the investment. I also found an Eagle return loss bridge for $300 that works great up to 1.2 gig.

----- Original Message -----
From: _robert8rpi_ (mailto:robert8rpi@...)
To: _hp8924@yahoogroups.com_ (mailto:hp8924@yahoogroups.com)
Sent: Friday, October 28, 2011 6:53 AM
Subject: [hp8924] Re: RF tools option

Hi Tony,
When you say an old style HP disk, do you mean a PCMCIA card or a floppy disc. If a disc, what size is it?
Any chance of a listing or a copy?

Robert.

--- In _hp8924@yahoogroups.com_ (mailto:hp8924@yahoogroups.com) , "Tony Brignole" <abrigno@...> wrote:
>
> Rick Bowman at Amtronix sells the RF tools option. It comes on an old style HP disc that the 8924 reads. I bought it several years ago and it is great. I have used it many times.
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> It is written in HP basic and is a little quirky to get used to but once you do it is great.
> You can also get the 8924 or 8920 programming manual and write programs yourself if you are so inclined.
>
> ----- Original Message -----
> From: Ralph Mowery
> To: _hp8924@yahoogroups.com_ (mailto:hp8924@yahoogroups.com)
> Sent: Tuesday, October 25, 2011 6:41 PM
> Subject: [hp8924] RF tools option
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>
>
> Does anyone know where to find the RF Tool options HP 11807 option 100 for the 8924C ?
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> Ebay does not seem to have any for sell and other searches do not seem to locate it either.
>
> There seems to be a company That makes some software called RF tools, but I think it is a similar software, but not the one by HP. That sells for $ 290 and is not worth it to me just to play with as a ham.
> Most things that are done with the software can be done , just the tools make it simpler to setup.
>

# 418. 8924c Memory card.

Yahoo group: hp8924
Date: 2011-10-30 19:21:20 UTC
From: Rix
Topic: 418  Message: 418

Is the pcmcia card for the 8924c proprietary or is it a standard card?
I purchased, probably misteakenly, a pcmcia to cf card adapter and plugged in a 2 gig cf card. But the 8924 doesn't seem to recognize it.
Would hate to spend money for another card but??.
Thanks much
Rix Seacord
K2AVP

# 419. RE: [hp8924] Re: RF tools option

Yahoo group: hp8924
Date: 2011-10-30 19:59:11 UTC
From: Mike, KD7MG
Topic: 394  Message: 419

I may be wrong, but I thought I read once where RF Tools is individually serialized for each HP analyzer that it’s purchased for. You might check into this, as I’m not sure copying it from one machine to another will do you much good.

Mike

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Robert Atkinson
Sent: Sunday, October 30, 2011 9:02 AM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Re: RF tools option

Hi Chris,

Unfortunatly Memory Card Explorer is not a free programme. It's owned by ELAN (who make card readers) and is not cheap.

Being as the program is loaded into the Test Sets memory, it should be possible to remove the card and then copy the program to a new card. You might have to do this for each program. Another possibility is a laptop running Linux. The are a lot of disk utilities for Linux.

Robert G8RPI.

---

From: "N9LLO@..." <N9LLO@...>
To: hp8924@yahoogroups.com
Sent: Sunday, 30 October 2011, 11:43
Subject: Re: [hp8924] Re: RF tools option

Try using a free program called Memory card explorer. I would love to have a binary file of the 11807 opt 100 stuff to look over.

Chris

N9LLO

In a message dated 10/28/2011 8:03:54 A.M. Eastern Daylight Time, abrigno@... writes:

It's a PC-MCIA memory card. The one Amtronix sent me with the RF Tools was Panasonic BN-512HSR-ND from Dig-Key It is a 512 Meg card.

I have been trying to find a way to copy it using the PCMCIA on my laptop but no luck so far. There are many cards of this type available on Ebay with this much or more capacity very cheap. The specilized software to read and write to it is fairly pricey and I haven't found any less that $100 so far.

The total cost if I remember was in the $100 range from Amtronix. It is well worth the investment. I also found an Eagle return loss bridge for $300 that works great up to 1.2

gig.

----- Original Message -----

From: robert8rpi <mailto:robert8rpi@...>

To: hp8924@yahoogroups.com

Sent: Friday, October 28, 2011 6:53 AM

Subject: [hp8924] Re: RF tools option

Hi Tony,
When you say an old style HP disk, do you mean a PCMCIA card or a floppy disc. If a disc, what size is it?
Any chance of a listing or a copy?

Robert.

--- In hp8924@yahoogroups.com, "Tony Brignole" <abrigno@...> wrote:
>
> Rick Bowman at Amtronix sells the RF tools option. It comes on an old style HP disc that the 8924 reads. I bought it several years ago and it is great. I have used it many times.
>
> It is written in HP basic and is a little quirky to get used to but once you do it is great.
> You can also get the 8924 or 8920 programming manual and write programs yourself if you are so inclined.
>
> ----- Original Message -----
> From: Ralph Mowery
> To: hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>
> Sent: Tuesday, October 25, 2011 6:41 PM
> Subject: [hp8924] RF tools option
>
>
>
> Does anyone know where to find the RF Tool options HP 11807 option 100 for the 8924C ?
>
> Ebay does not seem to have any for sell and other searches do not seem to locate it either.
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> There seems to be a company That makes some software called RF tools, but I think it is a similar software, but not the one by HP. That sells for $ 290 and is not worth it to me just to play with as a ham.
> Most things that are done with the software can be done , just the tools make it simpler to setup.
>

# 420. Re: [hp8924] 8924c Memory card.

Yahoo group: hp8924
Date: 2011-10-30 20:20:21 UTC
From: Robert Atkinson
Topic: 418  Message: 420

Hi,
The 8924C (and 8920B) take standard PCMCIA SRAM or ROM cards. The earlier testsets like the 8920A and 8922x use non standard cards. The 8924C does not know about FLASH memory but might read a card that has had an image of a ROM or SRAM card written to it on a PC. To format a card or save data on the testset you need a card that is true ramdom access, not block write like FLASH. These are battery backed up RAM cards. They don't have to be HP branded.

Robert G8RPI.

---
From: Rix <eseacord@...>
To: hp8924@yahoogroups.com
Sent: Sunday, 30 October 2011, 19:21
Subject: [hp8924] 8924c Memory card.

Is the pcmcia card for the 8924c proprietary or is it a standard card?
I purchased, probably misteakenly, a pcmcia to cf card adapter and plugged in a 2 gig cf card. But the 8924 doesn't seem to recognize it.
Would hate to spend money for another card but??.
Thanks much
Rix Seacord
K2AVP

# 421. Re: [hp8924] 8924c Memory card.

Yahoo group: hp8924
Date: 2011-10-30 21:39:05 UTC
From: Rix Seacord
Topic: 418  Message: 421

Robert
Many thanks for the prompt reply. That really clears things up.
I located some cards on ebay that appear to fit the bill without
demolishing my bank account.
Assuming 512k is enough.
Thanks again

Ewing (Rix) Seacord K2AVP
Putnam County RACES Radio Officer
eseacord@...

845-628-0892 Home
914-262-9186 Cell

I hear and I forget
I see and I remember
I do and I understand

On 10/30/2011 4:20 PM, Robert Atkinson wrote:
> Hi,
> The 8924C (and 8920B) take standard PCMCIA SRAM or ROM cards. The
> earlier testsets like the 8920A and 8922x use non standard cards. The
> 8924C does not know about FLASH memory but might read a card that has
> had an image of a ROM or SRAM card written to it on a PC. To format a
> card or save data on the testset you need a card that is true ramdom
> access, not block write like FLASH. These are battery backed up RAM
> cards. They don't have to be HP branded.
>
> Robert G8RPI.
>
> ---
> *From:* Rix <eseacord@...>
> *To:* hp8924@yahoogroups.com
> *Sent:* Sunday, 30 October 2011, 19:21
> *Subject:* [hp8924] 8924c Memory card.
>
> Is the pcmcia card for the 8924c proprietary or is it a standard card?
> I purchased, probably misteakenly, a pcmcia to cf card adapter and
> plugged in a 2 gig cf card. But the 8924 doesn't seem to recognize it.
> Would hate to spend money for another card but??.
> Thanks much
> Rix Seacord
> K2AVP
>
>
>

>

# 422. RE: [hp8924] Re: RF tools option

Yahoo group: hp8924
Date: 2011-10-30 22:48:42 UTC
From: Ralph Mowery
Topic: 394  Message: 422

I think there may be some confusion on the RF Tools.  HP made a product called RF Tools option something or other.  There is another company that makes a product for the 8920 series of test equipment also called RF tools.

The other company does state it has to have the serial number.  They appear to be two entirely seperate producits.

I started all of this and was thinking of the one made by HP.  I am not about to pay around $ 300 for what that other softwear does for no more than I would use it.

Most of what the HP version does can be done with just a little thinking and a calculator.  I was mostly interisted just playing with the program.

--- On Sun, 10/30/11, Mike, KD7MG <kd7mg@...> wrote:

From: Mike, KD7MG <kd7mg@...>
Subject: RE: [hp8924] Re: RF tools option
To: hp8924@yahoogroups.com
Date: Sunday, October 30, 2011, 3:59 PM

I may be wrong, but I thought I read once where RF Tools is individually serialized for each HP analyzer that it’s purchased for. You might check into this, as I’m not sure copying it from one machine to another will do you much good.

Mike

# 423. RE: [hp8924] Re: RF tools option

Yahoo group: hp8924
Date: 2011-10-31 01:57:01 UTC
From: Mike, KD7MG
Topic: 394  Message: 423

OK. Thanks for clearing that up. Sounds like someone missed an opportunity to trademark the name. J

Mike

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Ralph Mowery
Sent: Sunday, October 30, 2011 4:49 PM
To: hp8924@yahoogroups.com
Subject: RE: [hp8924] Re: RF tools option

I think there may be some confusion on the RF Tools. HP made a product called RF Tools option something or other. There is another company that makes a product for the 8920 series of test equipment also called RF tools.

The other company does state it has to have the serial number. They appear to be two entirely seperate producits.

I started all of this and was thinking of the one made by HP. I am not about to pay around $ 300 for what that other softwear does for no more than I would use it.

Most of what the HP version does can be done with just a little thinking and a calculator. I was mostly interisted just playing with the program.

--- On Sun, 10/30/11, Mike, KD7MG <kd7mg@...> wrote:

From: Mike, KD7MG <kd7mg@...>
Subject: RE: [hp8924] Re: RF tools option
To: hp8924@yahoogroups.com
Date: Sunday, October 30, 2011, 3:59 PM

I may be wrong, but I thought I read once where RF Tools is individually serialized for each HP analyzer that it’s purchased for. You might check into this, as I’m not sure copying it from one machine to another will do you much good.

Mike

# 424. Power Load Calibration Instructions

Yahoo group: hp8924
Date: 2011-11-08 01:50:55 UTC
From: radioman762
Topic: 424  Message: 424

I just completed installation of the 60 watt load that I had purchased a few weeks ago.

I have the data card but mislaid the instructions for using it. I have searched here but can't find anything.

I'd really appreciate it if someone could advise me of the correct procedure.

Many thanks in advance.

# 425. Re: [hp8924] Power Load Calibration Instructions

Yahoo group: hp8924
Date: 2011-11-09 00:08:05 UTC
From: Ralph Mowery
Topic: 424  Message: 425

While not much to go on, here is a copy from the service manual page 81.

Downloading Calibration Data
Most assemblies in the Test Set require calibration data. To ensure that the Test Set remains calibrated after an assembly is replaced, new calibration data must be downloaded. When required, calibration data is provided on a PCMCIA memory card that is included with the replacement assembly. Refer to table 3, "Troubleshooting" on page 49 to see which modules require calibration data.
Calibration Data Download Procedure
1. Switch the Test Set’s power off.
2. Remove the faulty assembly.
3. Install the replacement assembly.
4. Switch the Test Set’s power on.
5. Insert the memory card.
6. Press the TESTS key.
7. Set the Select Procedure Location: field to Card.
8. Press the K1 key to run the test.
9. Follow the instructions on the screen.
10.Set the Select Procedure Filename: field to: DNLDCAL.

I put in the 3 watt to 60 watt upgrade option a few weeks ago and followed this.  Have to admitt that I got to a point and stopped twice before I told it to finish.

Here is the number of the manual if you want to download it from Agilent.

08924-90061.pdf

--- On Mon, 11/7/11, radioman762 <fwbray@...> wrote:

From: radioman762 <fwbray@...>
Subject: [hp8924] Power Load Calibration Instructions
To: hp8924@yahoogroups.com
Date: Monday, November 7, 2011, 8:50 PM

I just completed installation of the 60 watt load that I had purchased a few weeks ago.

I have the data card but mislaid the instructions for using it.  I have searched here but can't find anything.

I'd really appreciate it if someone could advise me of the correct procedure.

Many thanks in advance.

# 426. Re: [hp8924] Power Load Calibration Instructions

Yahoo group: hp8924
Date: 2011-11-09 00:54:00 UTC
From: fwbray@mminternet.com
Topic: 424  Message: 426

Thanks!
Sent from my Verizon Wireless BlackBerry

-----Original Message-----
From: Ralph Mowery <ku4pt@yahoo.com>
Sender: hp8924@yahoogroups.com
Date: Tue, 8 Nov 2011 16:08:05
To: <hp8924@yahoogroups.com>
Reply-To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Power Load Calibration Instructions

While not much to go on, here is a copy from the service manual page 81.

Downloading Calibration Data
Most assemblies in the Test Set require calibration data. To ensure that
the Test Set remains calibrated after an assembly is replaced, new
calibration data must be downloaded. When required, calibration data
is provided on a PCMCIA memory card that is included with the
replacement assembly. Refer to table 3, "Troubleshooting" on page 49 to see
which modules require calibration data.
Calibration Data Download Procedure
1. Switch the Test Set’s power off.
2. Remove the faulty assembly.
3. Install the replacement assembly.
4. Switch the Test Set’s power on.
5. Insert the memory card.
6. Press the TESTS key.
7. Set the Select Procedure Location: field to Card.
8. Press the K1 key to run the test.
9. Follow the instructions on the screen.
10.Set the Select Procedure Filename: field to: DNLDCAL.

I put in the 3 watt to 60 watt upgrade option a few weeks ago and followed this.  Have to admitt that I got to a point and stopped twice before I told it to finish.

Here is the number of the manual if you want to download it from Agilent.

08924-90061.pdf

--- On Mon, 11/7/11, radioman762 <fwbray@mminternet.com> wrote:

From: radioman762 <fwbray@mminternet.com>
Subject: [hp8924] Power Load Calibration Instructions
To: hp8924@yahoogroups.com
Date: Monday, November 7, 2011, 8:50 PM

I just completed installation of the 60 watt load that I had purchased a few weeks ago.

I have the data card but mislaid the instructions for using it.  I have searched here but can't find anything.

I'd really appreciate it if someone could advise me of the correct procedure.

Many thanks in advance.

# 427. Re: RF tools option

Yahoo group: hp8924
Date: 2011-11-09 05:59:06 UTC
From: rfiemiguy
Topic: 394  Message: 427

The other "RF Tools" program is made by a firm in Australia. It is a Windows program and you can get a demo for about $5 postage. It has a lot of nice features and for hams it is sold discounted with a limitation to work on one and only one test set. I am interested in the product for ham use, however the cost of the USB to HPIB interface is expensive. Apparently the software will only work with one specific and expensive HP interface.

--- In hp8924@yahoogroups.com, Ralph Mowery <ku4pt@...> wrote:
>
> I think there may be some confusion on the RF Tools.Â  HP made a product called RF Tools option something or other.Â  There is another company that makes a product for the 8920 series of test equipment also called RF tools.Â
> Â
> The other company does state it has to have the serial number.Â  They appear to be two entirely seperate producits.
> Â
> I started all of this and was thinking of the one made by HP.Â  I am not about to pay around $ 300 for what that other softwear does for no more than I would use it.
> Â
> Most of what the HP version does can be done with just a little thinking and a calculator.Â  I was mostly interisted just playing with the program.
> Â
> Â
>
>
> --- On Sun, 10/30/11, Mike, KD7MG <kd7mg@...> wrote:
>
>
> From: Mike, KD7MG <kd7mg@...>
> Subject: RE: [hp8924] Re: RF tools option
> To: hp8924@yahoogroups.com
> Date: Sunday, October 30, 2011, 3:59 PM
>
>
>
>
>
>
>
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>
>
>
>
> I may be wrong, but I thought I read once where RF Tools is individually serialized for each HP analyzer that itâ□□s purchased for. You might check into this, as Iâ□□m not sure copying it from one machine to another will do you much

good.
>
> Mike
> Â
>

# 428. Re: Questions

Yahoo group: hp8924
Date: 2011-11-10 22:34:42 UTC
From: sw1mne
Topic: 269  Message: 428

Hi,

Look here
Differences between the HP 8920A, 8920B, 8924C, E6380A, E8285A
http://www.amtronix.com/diff.htm

Yiannis
Sv1mne

--- In hp8924@yahoogroups.com, "Mike, KD7MG" <kd7mg@...> wrote:
>
> Not sure about the spec comparison with the 8924, but the manuals you're
> looking for can be found on the right column of THIS
> <http://www.home.agilent.com/agilent/product.jspx?cc=US&lc=eng&nid=-53690081
> 1.536880769&pageMode=PL> page.
>
> Cheers,
> Mike
>
>
>
> From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of EC
> Welch
> Sent: Monday, May 30, 2011 6:47 PM
> To: hp8924@yahoogroups.com
> Subject: [hp8924] Questions
>
>
>
>
>
> HI,
>
> New to the group. Just bought a HP 8935/Agilent E6380A. How does this
> compare with the HP8924? My needs were .4 to 1000M, Spectrum Analyzer and
> Tracking Gen, and 60W dummy load. I know Agilent has a Manual download
> feature---How do I find it? All questions at this point---maybe I can
> contribute later.
>
> Regards,
>
> EC
>

# 429. Replacement Finger Stock

Yahoo group: hp8924
Date: 2011-11-12 23:01:20 UTC
From: radioman762
Topic: 429  Message: 429

In doing some cleaning and upgrades, I found that the finger-stock that goes between the bottom of the front panel and the chassis on my 8924C was damaged. Although I pieced it back together, it really needs replacement since portions were missing.

After I'd reassembled the unit, I was browsing through the latest Fair Radio Sales catalog and saw that they carry a couple of different types of finger-stock. Item number 97-555-02 appeared to be similar to what HP used. I ordered some, at $7.95 each, and they arrived today.

It turns out that this looks to be precisely what HP used. It even has the adhesive strip to hold it in place like the original. All that needs to be done is to cut it to length, since it is 24 inches long, and install it before remounting the front panel.

I don't know how critical having strip fully intact is to an RF tight unit, but HP must have thought that it was. When I get a chance, I will pull the front panel and install it. I will keep a spare in case I ever have to pull the front panel again, since I don't know how long it will be available.

I have no connection with Fair Radio Sales, other than being a satisfied customer.

# 430. Rear feet for 8924C?

Yahoo group: hp8924
Date: 2011-11-16 03:53:59 UTC
From: capt6d
Topic: 430  Message: 430

Would anyone here know where to get the rear plastic feet (If thats what the're called) for a 8924C?
I'm not talking about the four feet under the unit, These are the one's on the back that protect the bnc connectors when the unit is stood up.
I can't seem to locate any or find any info on other instruments that may have used the same part. I check ebay from time to time but all I see is the bottom feet.

# 431. Re: [hp8924] Rear feet for 8924C?

Yahoo group: hp8924
Date: 2011-11-16 07:04:19 UTC
From: Phil Lefever
Topic: 430  Message: 431

At 09:53 PM 11/15/2011, you wrote:
>Would anyone here know where to get the rear plastic feet (If thats what
>the're called) for a 8924C?
>I'm not talking about the four feet under the unit, These are the one's on
>the back that protect the bnc connectors when the unit is stood up.
>I can't seem to locate any or find any info on other instruments that may
>have used the same part. I check ebay from time to time but all I see is
>the bottom feet.

I'm looking for a replacement for mine also. One of them got hit and its pretty badly broken, I wonder if this is a common problem?

I was considering making some for my instrument. I manage a small machine shop and we machine a lot of plastics. It wouldn't take much to carve these feet out solid blocks of Nylon or Acetal and then they would never break!

Once the machine is programmed to make a part it is cost effective to make a run of parts. If other people were interested I'd consider making them available to the group. Depending on the quantity run, pricing might get as low as $60 a set.

73

Phil, KB0NES
Burnsville, MN

# 432. Re: [hp8924] Re: 8924E and sweeping a cavity

Yahoo group: hp8924
Date: 2011-11-20 05:26:40 UTC
From: Rix Seacord
Topic: 394  Message: 432

Rusty
How did you finally make out?
I apologize for not getting back to you sooner but too much stuff came up.
If you still want some one on one, I would gladly give you a call.
We are only 1 hour apart time zone wise I think.
Later
Rix

On 10/25/2011 7:23 PM, ve3wva wrote:
>
> HOLY CRAP I CAN SEE IT!!
>
> I switched the input to the antenna port and that seems to have done it!
>
> I will let you guys know how i make out!
>
> I would still like to setup the initial power on params... I will have
> a look at that and if I can't figure it out I will give a yell back on
> the list!
>
> THANKS GUYS!
>
> de Rusty
>
> --- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>,
> "ve3wva" <ve3wva@...> wrote:
> >
> > Hi Rix
> >
> > No it means the button isn't there on the 8924e.
> >
> > Sounds great about customizing the startup on that unit... save me a
> lot of button pushing. I have a great guy in England offering to call
> me and walk me thru a few things too but it's getting a bit late for
> him to be up over across the pond now I think.
> >
> > The step by step thing sounds great!
> >
> > Do you have skype?
> >
> > If not, I can call you to save your phone bill! If you email me
> directly with your phone number I will give you a ring when you are free.
> >
> > My direct email (if you can't see it is my callsign @...
> >

> > Thanks again! ve3wva is my call by the way!
> >
> > MUCH APPRECIATED!!
> >
> >
> >
> > --- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>, Rix
> Seacord <eseacord@> wrote:
> > >
> > > Rusty
> > > Being retired I have too much time on my hands. At least according
> to my
> > > wife.
> > >
> > > I've been trying to find the writeup I mentioned to you earlier. I'm
> > > sure that you could get everything up and running with it.
> > > Personaly I don't think using email helps. If you want I could
> call you
> > > at sometime and we could go over this step by step.
> > > One of the first things I found to do was to setup the 8924 for
> ham use
> > > so that on power up the settings we need are taken care of.
> > > This is done by setting up the parameters we need then using the blue
> > > key/config entering the setting into memory under the name poweron.
> > > this now becomes your default setup.
> > > By doing so when the 8924 boots up it will be in spectrum analyzer
> mode,
> > > tracking generator, output to duplex, input antenna, rf gen freq
> around
> > > 445mhz and so on.
> > > When you say the front panel does not have access to certain
> functions,
> > > does this mean they don't come up when you press the button??
> > > Later
> > > Rix
> > >
> > >
> > >
> > > On 10/25/2011 8:15 AM, ve3wva wrote:
> > > >
> > > > Hi Robert
> > > > and many many thanks for your input and your offer on the phone
> call!
> > > > maybe we should do that for sure.
> > > > In the positioning paper citing the differences between the two
> (8924e
> > > > vs 8924c)
> > > >
> > > > The HP 8924E does not have front
> > > > panel access to general-purpose analog screens such as:

> > > > ? DUPLEX TEST
> > > > ? RX TEST
> > > > ? TX TEST
> > > > ? RF GEN
> > > > ? RF ANL
> > > > ? ACP
> > > > ? ENCODER
> > > > ? DECODER
> > > >
> > > > I am certainly encouraged by what they DON'T versus what they DO
> > > > say... they don't say the RX test isn't there, just that there
> is no
> > > > front panel access to it...
> > > >
> > > > It's 8:10 am here and trying to get moving and get the kids fed
> & off
> > > > to school. I will be out in the shack/shop within the hour.
> > > >
> > > > So I will be at it shortly.
> > > >
> > > > If there is anyone on list that has swept a cavity with an 8924E I
> > > > would be grateful for their input!! I hope I didn't buy a
> proverbial
> > > > boat anchor!
> > > >
> > > > de VE3WVA
> > > >
> > > > --- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>
> <mailto:hp8924%40yahoogroups.com>,
> > > > Robert Atkinson <robert8rpi@> wrote:
> > > > >
> > > > > Hi Rusty,
> > > > > Colin has it nailed, certainly for the 8924C. Reading the
> > > > difererences document for the 8924C versus 8924E I'm a little
> > > > concerned about the lack of "front panel access" to the analog RF
> > > > generator and duplex testing. This may be an issue for sweeping.
> If no
> > > > one else has experience of doing this with an "E" maybe we can do a
> > > > run through on the phone with me driving my "C" and you driving the
> > > > "E". Not sure if you could get the functionallity back with a
> firmware
> > > > update ( "C" ROM retrofit) to the E. Would have to look at
> differences
> > > > in the sevice manual.
> > > > > ?
> > > > > In short has anyone used the Spectrum Analyser and Tracking
> > > > Generator on an? "E"? model 8924?
> > > > > ?
> > > > > ?
> > > > > Robert G8RPI.?

> > > > >
> > > > >
> > > > > _____
> > > > > From: ve3wva <ve3wva@>
> > > > > To: hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>
> <mailto:hp8924%40yahoogroups.com>
> > > > > Sent: Tuesday, 25 October 2011, 6:15
> > > > > Subject: [hp8924] Re: 8924E and sweeping a cavity
> > > > >
> > > > >
> > > > > ?
> > > > >
> > > > > ---
> > > > > Thank you Colin....it,s after 1am here now so I will try this
> tomorrow!
> > > > > I am currently not using the antenna port...guess I need to?
> > > > >
> > > > > I did find a blurb about the analog rx test not being
> available from
> > > > the front panel on the 8924e where it is on the 8924c....
> > > > >
> > > > > I have to get some sleep, but I am very anxious to try your
> suggestion!
> > > > >
> > > > > A thousand thanks!
> > > > >
> > > > > I will let you know how I make out!
> > > > >
> > > > > Rusty
> > > > >
> > > > > In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>
> <mailto:hp8924%40yahoogroups.com>, "Colin"
> > > > <vk2kcm@> wrote:
> > > > > >
> > > > > > This is based on a HP8921A which I believe is almost the
> same as
> > > > the HP8924E
> > > > > >
> > > > > > Select the Spectrum Analyser
> > > > > > Under Controls select Main
> > > > > > Set the input to Antenna in
> > > > > > Set the required centre frequency
> > > > > > Set the required span
> > > > > > Set the Ref Level
> > > > > >
> > > > > > Now in the Controls section, change to the Generator (I'm at
> work
> > > > and not 100% if this is what is is labelled, it is the second
> option,
> > > > the other 3 are Main, Auxiliary and Marker)

> > > > > > Select sweep (the generator can be fixed or sweep)
> > > > > > Select the output port to duplexer out
> > > > > > Select the RF level
> > > > > >
> > > > > > As this port, the screen should be showing what you want.
> > > > > >
> > > > > > You can select Marker under controls and move the marker around
> > > > for frequency or level measurement.
> > > > > >
> > > > > > If it still doesn't work, let me know and I will re-check this
> > > > once I get home form work.
> > > > > >
> > > > > > Colin
> > > > > > Vk2KCM
> > > > > >
> > > > > >
> > > > > > --- In hp8924@yahoogroups.com
> <mailto:hp8924%40yahoogroups.com> <mailto:hp8924%40yahoogroups.com>,
> > > > "ve3wva" <ve3wva@> wrote:
> > > > > > >
> > > > > > >
> > > > > > >
> > > > > > > Thank You all for your input.
> > > > > > >
> > > > > > > I have combed thru everything I can find on Agilent's
> website,
> > > > repeater-builder.com and googled the crap out of it, but I am
> stuck.
> > > > Nowhere can I find a walk thru on how to set-up the tracking
> > > > generator/spectrum analyzer for sweeping a range of frequencies.
> > > > > > >
> > > > > > >
> > > > > > > I can find LOTS of great general info on duplexer tuning,
> > > > including this group, but I need a bit more specifics on this
> > > > particular unit.
> > > > > > >
> > > > > > > This project has absolutely consumed ALL (and then some!)
> of my
> > > > spare time for the past 3 weeks... my wife and kids say "You DO
> > > > exist!" when i come in from the shack at 12 - 1 am... I am
> hearing a
> > > > 1kHz tone in my sleep!
> > > > > > >
> > > > > > > If there is anyone on the list that has used an HP/Agilent
> 8924e
> > > > (preferably)or an 892x to actually sweep a duplexer, to actually
> SEE
> > > > the BP/BR trace on the specan... any kind of step - by - step
> guide on
> > > > how to set it up would be priceless to me right now.

> > > > > > >
> > > > > > > I have the duplexer tuned for the strongest BP signal and the
> > > > weakest BR signal (I hope!) but I absolutely need to see it to
> be sure
> > > > it's on the money.
> > > > > > >
> > > > > > > I am hoping this unit (the 8924e and myself included:) can
> > > > actually do it.
> > > > > > >
> > > > > > > Thanks again to one and all!
> > > > > > >
> > > > > > > 73 de VE3WVA
> > > > > > >
> > > > > > >
> > > > > > >
> > > > > > > --- In hp8924@yahoogroups.com
> <mailto:hp8924%40yahoogroups.com> <mailto:hp8924%40yahoogroups.com>,
> > > > Jleikhim <rhyolite@> wrote:
> > > > > > >
> > > > > > > 1) having 3 or 6 db pads on the in and out cables of the
> test
> > > > set can help normalize the impedance when tuning up.
> > > > > > > 2)the notch is most critical, requiring enough signal power
> > > > and sensitivity to see the bottom of the notch. Sometimes tuning
> one
> > > > cavity at a time rather than as a set is best approach.
> > > > > > > 3) your 8923 should be up to task if you use good double
> > > > shielded cables and avoid adaptors especially poor ones.
> > > > > > > 4) if you are satisfied with tuning but still have
> > > > desensitization, then suspect the antenna,transmission lines and
> jumpers
> > > > > > > 5) jumpers from RX and Tx should be double shielded and
> never
> > > > clustered together on the rack. Run separately on opposite side
> rack
> > > > rails with cable ties
> > > > > > > 6)measuring system desensitization is tricky, measure first
> > > > into 50 ohm resistive load, if less than 1 db, then you are ok and
> > > > should expect less than 1 db from the antenna unless outside noise
> > > > floor is greater than 1 db in which case you have other concerns.
> > > > > > >
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>

--
Rix Seacord (K2AVP)
Putnam County Radio Officer
22 Austin Rd
Mahopac, NY 10541
Home 845-628-0892
Cell 914-262-9186

# 433. RE: [hp8924] Re: 8924E and sweeping a cavity

Yahoo group: hp8924
Date: 2011-11-21 12:03:44 UTC
From: Rusty at Manitoulin Island Computers
Topic: 394  Message: 433
Attachments: 1 described; binary payloads are missing from this source WARC

We are good, Rix! I was able to tune up my Celwave/Phelps Dodge 526-4 no problem (tho insertion loss is a TOUCH high; my calculations work out to 1.6dB & published specs are 1dB) and with a little more patience I was able to tune my Sinclair Q3220E; insertion loss on it is about .9dB.

I still have a touch of de=sense with either duplexer hooked up to a dummy load, there is no noticeable de-sense; hooked up to the antenna (2 different ones actually; the first was a Sinclair 310-c2; the second and current one is a Decibel Products DB408-4) I have a touch of de-sense.

My be an issue with my hardline Working on a home brew TDR to scope the line.

I appreciate you checking on me!

micomp logo1

Rusty Auxier, Owner

Manitoulin Island Computers

32 Anglin St. Box 168

Mindemoya, ON P0P 1S0

705.377.7363 - Voice

705.377.7430 - Facsimile

<http://www.micomp.ca/> www.micomp.ca

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Rix Seacord
Sent: Sunday, November 20, 2011 12:27 AM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Re: 8924E and sweeping a cavity

Rusty
How did you finally make out?
I apologize for not getting back to you sooner but too much stuff came up.
If you still want some one on one, I would gladly give you a call.
We are only 1 hour apart time zone wise I think.
Later
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On 10/25/2011 7:23 PM, ve3wva wrote:

HOLY CRAP I CAN SEE IT!!

I switched the input to the antenna port and that seems to have done it!

I will let you guys know how i make out!

I would still like to setup the initial power on params... I will have a look at that and if I can't figure it out I will give a yell back on the list!

THANKS GUYS!

de Rusty

--- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com> , "ve3wva" <mailto:ve3wva@...> <ve3wva@...> wrote:
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> Hi Rix
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> No it means the button isn't there on the 8924e.
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> Sounds great about customizing the startup on that unit... save me a lot of button pushing. I have a great guy in England offering to call me and walk me thru a few things too but it's getting a bit late for him to be up over across the pond now I think.
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> The step by step thing sounds great!
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> Do you have skype?
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> If not, I can call you to save your phone bill! If you email me directly with your phone number I will give you a ring when you are free.
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> My direct email (if you can't see it is my callsign @...
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> Thanks again! ve3wva is my call by the way!
>
> MUCH APPRECIATED!!
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> > > > From: ve3wva <ve3wva@>

> > > > To: hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>
<mailto:hp8924%40yahoogroups.com> <mailto:hp8924%40yahoogroups.com>
> > > > Sent: Tuesday, 25 October 2011, 6:15
> > > > Subject: [hp8924] Re: 8924E and sweeping a cavity
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> > > the front panel on the 8924e where it is on the 8924c....
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suggestion!
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> > > <vk2kcm@> wrote:
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> > > > > This is based on a HP8921A which I believe is almost the same as
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> > > > > Select the Spectrum Analyser
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> > > and not 100% if this is what is is labelled, it is the second option,
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> > > > > As this port, the screen should be showing what you want.
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> > > spare time for the past 3 weeks... my wife and kids say "You DO
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> > > 1kHz tone in my sleep!
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> > > (preferably)or an 892x to actually sweep a duplexer, to actually SEE
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> > > how to set it up would be priceless to me right now.
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> > > > > > I have the duplexer tuned for the strongest BP signal and the
> > > weakest BR signal (I hope!) but I absolutely need to see it to be sure

> > > it's on the money.
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> > > actually do it.
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> > > > > > Thanks again to one and all!
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> > > into 50 ohm resistive load, if less than 1 db, then you are ok and
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Rix Seacord (K2AVP)
Putnam County Radio Officer
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Home 845-628-0892
Cell 914-262-9186

# 434. Re: [hp8924] Re: 8924E and sweeping a cavity

Yahoo group: hp8924
Date: 2011-11-21 14:18:15 UTC
From: Tony Brignole
Topic: 394  Message: 434
Attachments: 2 described; binary payloads are missing from this source WARC

Here is a homebrew TDR that several of us have built here in Memphis. Original design came from Pat Lane (W4OQG) who is Technical Manager at WKNO here. Parts are readily available and total cost is around $10.

I used this quick cheap design for many years prior to getting a TEK 1503.

You need a pretty quick scope depending on how long your line is. I use a TEK 465 (dual trace 100 MHz) military model and it works great. You have to calculate distance by scope sweep speed and line velocity factor.

One thing we have used it for is to test impendance of unknown lines. You check line and then put pot on end and rotate so line termination at end is flat, then read resistance of pot and you will be line impendance.

----- Original Message -----
From: Rusty at Manitoulin Island Computers
To: hp8924@yahoogroups.com
Sent: Monday, November 21, 2011 6:03 AM
Subject: RE: [hp8924] Re: 8924E and sweeping a cavity

We are good, Rix! I was able to tune up my Celwave/Phelps Dodge 526-4 no problem (tho insertion loss is a TOUCH high; my calculations work out to 1.6dB & published specs are 1dB) and with a little more patience I was able to tune my Sinclair Q3220E; insertion loss on it is about .9dB.

I still have a touch of de=sense with either duplexer. hooked up to a dummy load, there is no noticeable de-sense; hooked up to the antenna (2 different ones actually; the first was a Sinclair 310-c2; the second and current one is a Decibel Products DB408-4) I have a touch of de-sense.

My be an issue with my hardline. Working on a home brew TDR to scope the line.

I appreciate you checking on me!

Rusty Auxier, Owner

Manitoulin Island Computers

32 Anglin St. Box 168

Mindemoya, ON P0P 1S0

705.377.7363 - Voice

705.377.7430 - Facsimile

www.micomp.ca

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Rix Seacord
Sent: Sunday, November 20, 2011 12:27 AM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Re: 8924E and sweeping a cavity

Rusty
How did you finally make out?
I apologize for not getting back to you sooner but too much stuff came up.
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We are only 1 hour apart time zone wise I think.
Later
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> > > > To: hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>

> > > > Sent: Tuesday, 25 October 2011, 6:15
> > > > Subject: [hp8924] Re: 8924E and sweeping a cavity
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> > > rails with cable ties
> > > > > > > 6)measuring system desensitization is tricky, measure first
> > > into 50 ohm resistive load, if less than 1 db, then you are ok and
> > > should expect less than 1 db from the antenna unless outside noise
> > > floor is greater than 1 db in which case you have other concerns.
> > > > > > >
> > > > > > > Sent from my iPod
> > > > > > >
> > > > > >
> > > > >
> > > >
> > >
> >
>

-- Rix Seacord (K2AVP)Putnam County Radio Officer22 Austin RdMahopac, NY 10541Home 845-628-0892Cell 914-262-9186

# 435. Fwd: Item ICOM IC-Delta-100M (IC -Δ100M) for sal e on E-Bay

Yahoo group: hp8924
Date: 2011-11-22 04:17:42 UTC
From: Joe Leikhim
Topic: 435  Message: 435

I am currently selling an ICOM IC-Delta-100M (IC -Δ100M) Tri-Band 2m 70cm 23cm FM HAM RADIO on the E-Bay. The frequency capabilities are most suitable for the LEO FM satellites for V/U, UV, L/U and future L/V modes.

I will ship internationally.

Listing:

http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=160687355474

Thanks

--
Joe Leikhim

Leikhim and Associates
Communications Consultants
Oviedo, Florida

www.Leikhim.com

JLeikhim@...

407-982-0446

Note to GMail Account users. Due to an abnormally high volume of spam originating from bogus GMail accounts, I have found it necessary to block certain GMail traffic. Please phone me if you believe your message was not received.

--
Joe Leikhim

Leikhim and Associates
Communications Consultants
Oviedo, Florida

www.Leikhim.com

JLeikhim@...

407-982-0446

Note to GMail Account users. Due to an abnormally high volume of spam originating from bogus GMail accounts, I have found it necessary to block certain GMail traffic. Please phone me if you believe your message was not received.

# 436. Re: Fwd: Item ICOM IC-Delta-100M (IC -Î☐100M) for sale on E-Bay

Yahoo group: hp8924
Date: 2011-11-22 07:11:00 UTC
From: k6png
Topic: 435  Message: 436

Please do not post for sale items that are not related to
the HP8924C.

73
Ray
K6PNG
HP8924 List Owner

--- In hp8924@yahoogroups.com, Joe Leikhim <rhyolite@...> wrote:
>
> I am currently selling an ICOM IC-Delta-100M (IC -Î"100M) Tri-Band 2m
> 70cm 23cm FM HAM RADIO on the E-Bay. The frequency capabilities are most
> suitable for the LEO FM satellites for V/U, UV, L/U and future L/V modes.
>
> I will ship internationally.
>
> Listing:
>
> http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=160687355474
>
> Thanks
>
>
>
>
>
>
>
>
>
>
>
>
>
>
>
> --
> Joe Leikhim
>
> Leikhim and Associates
> Communications Consultants
> Oviedo, Florida
>
> www.Leikhim.com
>

> JLeikhim@...
>
> 407-982-0446
>
> Note to GMail Account users. Due to an abnormally high volume of spam originating from bogus GMail accounts, I have found it necessary to block certain GMail traffic. Please phone me if you believe your message was not received.
>
>
>
> --
> Joe Leikhim
>
> Leikhim and Associates
> Communications Consultants
> Oviedo, Florida
>
> www.Leikhim.com
>
> JLeikhim@...
>
> 407-982-0446
>
> Note to GMail Account users. Due to an abnormally high volume of spam originating from bogus GMail accounts, I have found it necessary to block certain GMail traffic. Please phone me if you believe your message was not received.
>

# 437. Re: 8924E and sweeping a cavity

Yahoo group: hp8924
Date: 2011-11-23 02:19:52 UTC
From: ve3wva
Topic: 394  Message: 437

Hi Tony...
for some reason I can't see the attachment. I am very interested in seeing the circuit tho.
Can you try attaching it again?
Maybe it's my browser...

Thanks!

Rusty

--- In hp8924@yahoogroups.com, "Tony Brignole" <abrigno@...> wrote:
>
>
>
> Here is a homebrew TDR that several of us have built here in Memphis. Original design came from Pat Lane (W4OQG) who is Technical Manager at WKNO here. Parts are readily available and total cost is around $10.
>
> I used this quick cheap design for many years prior to getting a TEK 1503.
>
> You need a pretty quick scope depending on how long your line is. I use a TEK 465 (dual trace 100 MHz) military model and it works great. You have to calculate distance by scope sweep speed and line velocity factor.
>
> One thing we have used it for is to test impendance of unknown lines. You check line and then put pot on end and rotate so line termination at end is flat, then read resistance of pot and you will be line impendance.
>
> ----- Original Message -----
> From: Rusty at Manitoulin Island Computers
> To: hp8924@yahoogroups.com
> Sent: Monday, November 21, 2011 6:03 AM
> Subject: RE: [hp8924] Re: 8924E and sweeping a cavity
>
>
>
>
> We are good, Rix! I was able to tune up my Celwave/Phelps Dodge 526-4 no problem (tho insertion loss is a TOUCH high; my calculations work out to 1.6dB & published specs are 1dB) and with a little more patience I was able to tune my Sinclair Q3220E; insertion loss on it is about .9dB.
>
> I still have a touch of de=sense with either duplexer. hooked up to a dummy load, there is no noticeable de-sense; hooked up to the antenna (2 different ones actually; the first was a Sinclair 310-c2; the second and current one is a Decibel Products DB408-4) I have a touch of de-sense.
>

> My be an issue with my hardline. Working on a home brew TDR to scope the line.
>
>
>
> I appreciate you checking on me!
>
>
>
>
>
>
>
> Rusty Auxier, Owner
>
> Manitoulin Island Computers
>
> 32 Anglin St. Box 168
>
> Mindemoya, ON P0P 1S0
>
> 705.377.7363 - Voice
>
> 705.377.7430 - Facsimile
>
> www.micomp.ca
>
>
>
> From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Rix Seacord
> Sent: Sunday, November 20, 2011 12:27 AM
> To: hp8924@yahoogroups.com
> Subject: Re: [hp8924] Re: 8924E and sweeping a cavity
>
>
>
>
>
> Rusty
> How did you finally make out?
> I apologize for not getting back to you sooner but too much stuff came up.
> If you still want some one on one, I would gladly give you a call.
> We are only 1 hour apart time zone wise I think.
> Later
> Rix
>
>
> On 10/25/2011 7:23 PM, ve3wva wrote:
>
>
>

> HOLY CRAP I CAN SEE IT!!
>
> I switched the input to the antenna port and that seems to have done it!
>
> I will let you guys know how i make out!
>
> I would still like to setup the initial power on params... I will have a look at that and if I can't figure it out I will give a yell back on the list!
>
> THANKS GUYS!
>
> de Rusty
>
> --- In hp8924@yahoogroups.com, "ve3wva" <ve3wva@> wrote:
> >
> > Hi Rix
> >
> > No it means the button isn't there on the 8924e.
> >
> > Sounds great about customizing the startup on that unit... save me a lot of button pushing. I have a great guy in England offering to call me and walk me thru a few things too but it's getting a bit late for him to be up over across the pond now I think.
> >
> > The step by step thing sounds great!
> >
> > Do you have skype?
> >
> > If not, I can call you to save your phone bill! If you email me directly with your phone number I will give you a ring when you are free.
> >
> > My direct email (if you can't see it is my callsign @...
> >
> > Thanks again! ve3wva is my call by the way!
> >
> > MUCH APPRECIATED!!
> >
> >
> >
> > --- In hp8924@yahoogroups.com, Rix Seacord <eseacord@> wrote:
> > >
> > > Rusty
> > > Being retired I have too much time on my hands. At least according to my
> > > wife.
> > >
> > > I've been trying to find the writeup I mentioned to you earlier. I'm
> > > sure that you could get everything up and running with it.
> > > Personaly I don't think using email helps. If you want I could call you
> > > at sometime and we could go over this step by step.
> > > One of the first things I found to do was to setup the 8924 for ham use
> > > so that on power up the settings we need are taken care of.

> > > This is done by setting up the parameters we need then using the blue
> > > key/config entering the setting into memory under the name poweron.
> > > this now becomes your default setup.
> > > By doing so when the 8924 boots up it will be in spectrum analyzer mode,
> > > tracking generator, output to duplex, input antenna, rf gen freq around
> > > 445mhz and so on.
> > > When you say the front panel does not have access to certain functions,
> > > does this mean they don't come up when you press the button??
> > > Later
> > > Rix
> > >
> > >
> > >
> > > On 10/25/2011 8:15 AM, ve3wva wrote:
> > > >
> > > > Hi Robert
> > > > and many many thanks for your input and your offer on the phone call!
> > > > maybe we should do that for sure.
> > > > In the positioning paper citing the differences between the two (8924e
> > > > vs 8924c)
> > > >
> > > > The HP 8924E does not have front
> > > > panel access to general-purpose analog screens such as:
> > > > ·
>
>
> ---
> DUPLEX TEST
> > > > ·
> ---
> RX TEST
> > > > ·
> ---
> TX TEST
> > > > ·
> ---
> RF GEN
> > > > ·
> ---
> RF ANL
> > > > ·
> ---
> ACP
> > > > ·
> ---
> ENCODER
> > > > ·
> ---
> DECODER
> > > >

> > > > I am certainly encouraged by what they DON'T versus what they DO
> > > > say... they don't say the RX test isn't there, just that there is no
> > > > front panel access to it...
> > > >
> > > > It's 8:10 am here and trying to get moving and get the kids fed & off
> > > > to school. I will be out in the shack/shop within the hour.
> > > >
> > > > So I will be at it shortly.
> > > >
> > > > If there is anyone on list that has swept a cavity with an 8924E I
> > > > would be grateful for their input!! I hope I didn't buy a proverbial
> > > > boat anchor!
> > > >
> > > > de VE3WVA
> > > >
> > > > --- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>,
> > > > Robert Atkinson <robert8rpi@> wrote:
> > > > >
> > > > > Hi Rusty,
> > > > > Colin has it nailed, certainly for the 8924C. Reading the
> > > > difererences document for the 8924C versus 8924E I'm a little
> > > > concerned about the lack of "front panel access" to the analog RF
> > > > generator and duplex testing. This may be an issue for sweeping. If no
> > > > one else has experience of doing this with an "E" maybe we can do a
> > > > run through on the phone with me driving my "C" and you driving the
> > > > "E". Not sure if you could get the functionallity back with a firmware
> > > > update ( "C" ROM retrofit) to the E. Would have to look at differences
> > > > in the sevice manual.
> > > > > Â
> > > > > In short has anyone used the Spectrum Analyser and Tracking
> > > > Generator on anÂ "E"Â model 8924?
> > > > > Â
> > > > > Â
> > > > > Robert G8RPI.Â
> > > > >
> > > > >
> > > > > _____
> > > > > From: ve3wva <ve3wva@>
> > > > > To: hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>
> > > > > Sent: Tuesday, 25 October 2011, 6:15
> > > > > Subject: [hp8924] Re: 8924E and sweeping a cavity
> > > > >
> > > > >
> > > > > Â
> > > > >
> > > > > ---
> > > > > Thank you Colin....it,s after 1am here now so I will try this tomorrow!
> > > > > I am currently not using the antenna port...guess I need to?
> > > > >
> > > > > I did find a blurb about the analog rx test not being available from

> > > > the front panel on the 8924e where it is on the 8924c....
> > > > >
> > > > > I have to get some sleep, but I am very anxious to try your suggestion!
> > > > >
> > > > > A thousand thanks!
> > > > >
> > > > > I will let you know how I make out!
> > > > >
> > > > > Rusty
> > > > >
> > > > > In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>, "Colin"
> > > > <vk2kcm@> wrote:
> > > > > >
> > > > > > This is based on a HP8921A which I believe is almost the same as
> > > > the HP8924E
> > > > > >
> > > > > > Select the Spectrum Analyser
> > > > > > Under Controls select Main
> > > > > > Set the input to Antenna in
> > > > > > Set the required centre frequency
> > > > > > Set the required span
> > > > > > Set the Ref Level
> > > > > >
> > > > > > Now in the Controls section, change to the Generator (I'm at work
> > > > and not 100% if this is what is is labelled, it is the second option,
> > > > the other 3 are Main, Auxiliary and Marker)
> > > > > > Select sweep (the generator can be fixed or sweep)
> > > > > > Select the output port to duplexer out
> > > > > > Select the RF level
> > > > > >
> > > > > > As this port, the screen should be showing what you want.
> > > > > >
> > > > > > You can select Marker under controls and move the marker around
> > > > for frequency or level measurement.
> > > > > >
> > > > > > If it still doesn't work, let me know and I will re-check this
> > > > once I get home form work.
> > > > > >
> > > > > > Colin
> > > > > > Vk2KCM
> > > > > >
> > > > > >
> > > > > > --- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>,
> > > > "ve3wva" <ve3wva@> wrote:
> > > > > > >
> > > > > > >
> > > > > > >
> > > > > > > Thank You all for your input.
> > > > > > >
> > > > > > > I have combed thru everything I can find on Agilent's website,

> > > > repeater-builder.com and googled the crap out of it, but I am stuck.
> > > > Nowhere can I find a walk thru on how to set-up the tracking
> > > > generator/spectrum analyzer for sweeping a range of frequencies.
> > > > > > >
> > > > > > >
> > > > > > > > I can find LOTS of great general info on duplexer tuning,
> > > > including this group, but I need a bit more specifics on this
> > > > particular unit.
> > > > > > >
> > > > > > > > This project has absolutely consumed ALL (and then some!) of my
> > > > spare time for the past 3 weeks... my wife and kids say "You DO
> > > > exist!" when i come in from the shack at 12 - 1 am... I am hearing a
> > > > 1kHz tone in my sleep!
> > > > > > >
> > > > > > > > If there is anyone on the list that has used an HP/Agilent 8924e
> > > > (preferably)or an 892x to actually sweep a duplexer, to actually SEE
> > > > the BP/BR trace on the specan... any kind of step - by - step guide on
> > > > how to set it up would be priceless to me right now.
> > > > > > >
> > > > > > > > I have the duplexer tuned for the strongest BP signal and the
> > > > weakest BR signal (I hope!) but I absolutely need to see it to be sure
> > > > it's on the money.
> > > > > > >
> > > > > > > > I am hoping this unit (the 8924e and myself included:) can
> > > > actually do it.
> > > > > > >
> > > > > > > > Thanks again to one and all!
> > > > > > >
> > > > > > > > 73 de VE3WVA
> > > > > > >
> > > > > > >
> > > > > > >
> > > > > > > > --- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>,
> > > > Jleikhim <rhyolite@> wrote:
> > > > > > >
> > > > > > > > 1) having 3 or 6 db pads on the in and out cables of the test
> > > > set can help normalize the impedance when tuning up.
> > > > > > > > 2)the notch is most critical, requiring enough signal power
> > > > and sensitivity to see the bottom of the notch. Sometimes tuning one
> > > > cavity at a time rather than as a set is best approach.
> > > > > > > > 3) your 8923 should be up to task if you use good double
> > > > shielded cables and avoid adaptors especially poor ones.
> > > > > > > > 4) if you are satisfied with tuning but still have
> > > > desensitization, then suspect the antenna,transmission lines and jumpers
> > > > > > > > 5) jumpers from RX and Tx should be double shielded and never
> > > > clustered together on the rack. Run separately on opposite side rack
> > > > rails with cable ties
> > > > > > > > 6)measuring system desensitization is tricky, measure first
> > > > into 50 ohm resistive load, if less than 1 db, then you are ok and
> > > > should expect less than 1 db from the antenna unless outside noise

> > > > floor is greater than 1 db in which case you have other concerns.
> > > > > > > >
> > > > > > > > Sent from my iPod
> > > > > > > >
> > > > > > >
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> > > > >
> > > >
> > > >
> > >
>
>
>
>
>
> -- Rix Seacord (K2AVP)Putnam County Radio Officer22 Austin RdMahopac, NY 10541Home 845-628-0892Cell 914-262-9186
>

# 438. Re: Rear feet for 8924C?

Yahoo group: hp8924
Date: 2011-11-25 03:32:26 UTC
From: capt6d
Topic: 430  Message: 438

I know i for one would be interested. I see a lot of these units on ebay missing the feet also. The last one I bought had both rear feet in perfect condition, that is until the seller wraped the thing in 1/2" PIPE FOAM for protection and shipped it UPS. The unit survived but the feet were in about 100 pcs. Never seen that type of shipping style before LOL!

# 439. Do all 8924c units have the same capabilities?

Yahoo group: hp8924
Date: 2011-11-25 15:41:49 UTC
From: tahrens301
Topic: 439  Message: 439

Hi Folks,

Newbie here. I'm in the process of peddling some of my test equipment to get an 8924c, but I have a couple of questions.

I found one for a good price on e-bay, and the guy has good feedback.

I asked him if it would do PL/DPL, 2-tone, etc, and he said that he didn't 'think' so.

Do all 8924c units have this capability, or are there some that are limited in what they can do?

Thanks!

Tim

BTW, if anybody is looking for an HP8590B let me know! :-)

# 440. Re: [hp8924] Do all 8924c units have the same capabilities?

Yahoo group: hp8924
Date: 2011-11-25 16:36:48 UTC
From: Ralph Mowery
Topic: 439  Message: 440

The 8924C comes standard with many decode functions.

Look here for the differant units of the 89xx series.

http://www.amtronix.com/diff.htm

Standard- includes tone, 2-tone, 5-6 tone, POSCAG, LTR, EDACD, LPT1327, DTMF, DPL

It also decodes any single  audio frequency so it will do subaudio tones. It will also generate many of the tone modes.

I got one a few months ago for around $ 650 with $ 100 shipping.  It was either a 3 or 6 watt input unit.  Another person was selling the 60 watt upgrade for $ 200 with a $ 50 refund if you sent the programming card back.  I bought that.  The pixture on ebay is misleading as all you get is a small atteuniator chip, programming card, and a sticker. You have to remove the old one and solder in the new one.  There are only two places to solder and easy to do.
Biggest problem is there are about 50 screws to take out to get to the attueniator.

If you do not know about it, go to the Agilent site and download the manuals for it.  They will not be of much use to you.  Then download the ones for the 8920B or 8920 series.  Some of the buttons are labled slightly differant and are in differant places, but those manuals are more for the analog transceivers instead of the digital phones.  While the information is not exectally the same, it is close enough to be of a big help.

--- On Fri, 11/25/11, tahrens301 <tahrens@...t> wrote:

From: tahrens301 <tahrens@...>
Subject: [hp8924] Do all 8924c units have the same capabilities?
To: hp8924@yahoogroups.com
Date: Friday, November 25, 2011, 10:41 AM

Hi Folks,

Newbie here.  I'm in the process of peddling some of my test equipment to get an 8924c, but I have a couple of questions.

I found one for a good price on e-bay, and the guy has good feedback.

I asked him if it would do PL/DPL, 2-tone, etc, and he said that he didn't 'think' so.

Do all 8924c units have this capability, or are there some that are limited in what they can do?

Thanks!

Tim

BTW, if anybody is looking for an HP8590B let me know! :-)

# 441. Re: Do all 8924c units have the same capabilities?

Yahoo group: hp8924
Date: 2011-11-25 19:04:09 UTC
From: robert8rpi
Topic: 439  Message: 441

Hi Tim,
The 8924C is basically a 8920B in a bigger box with the high stability reference, spectrum analser options and CDMA digital cellphone functionalty added. You can find the product info here http://cp.literature.agilent.com/litweb/pdf/5968-4094E.pdf
It includes tone generation an decode. The list on mine is Tone sequence, DTMF, CDCSS, Digi-page, AMPS-TACS, NAMP-NTAC, NMT, MPT1327, LTR and EDACS. If this does not cover what you need, the built in BASIC controller and two tone generators allow you to do just about anything. There were no real hardware options for the 8920C other than the high power attenuator. This can be added or you can use an external attenuator. You can tell the test set what this is so the readings are corrected. You can't beat it for the money.

Robert G8RPI.

--- In hp8924@yahoogroups.com, "tahrens301" <tahrens@...> wrote:
>
> Hi Folks,
>
> Newbie here. I'm in the process of peddling some of my test equipment to get an 8924c, but I have a couple of questions.
>
> I found one for a good price on e-bay, and the guy has good feedback.
>
> I asked him if it would do PL/DPL, 2-tone, etc, and he said that he didn't 'think' so.
>
> Do all 8924c units have this capability, or are there some that are limited in what they can do?
>
> Thanks!
>
> Tim
>
> BTW, if anybody is looking for an HP8590B let me know! :-)
>

# 442. Re: [hp8924] Re: Do all 8924c units have the same capabilities?

Yahoo group: hp8924
Date: 2011-11-25 21:50:25 UTC
From: Tim
Topic: 439  Message: 442

Thanks to all who have responded with such
good information!

I have one coming, and should be here next week.

I'm sure I'll have more questions!

Thanks again.

Tim

# 443. Re: [hp8924] Re: 8924E and sweeping a cavity

Yahoo group: hp8924
Date: 2011-11-27 00:27:25 UTC
From: Rix Seacord
Topic: 394  Message: 443
Attachments: 1 described; binary payloads are missing from this source WARC

Rusty
Keep in mind desense can be caused by more than just a defective cable.
Much has been written on this subject alone.
Be especially careful about the type of coax used from the xmitr to the
cans and up to the antenna. We just ran into several cases of standard
coax, copper/AL shielding, causing desense along with bad solder joints
on uhf connectors. These were replaced with double shielded silver
plated coax. Problem gone. Expensive but it works.
Now if only I can fix my blasted usb/serial issue:-)
Almost forgot, did you check the length of the jumper cables between the
cans?
Good luck
Rix

On 11/21/2011 7:03 AM, Rusty at Manitoulin Island Computers wrote:
>
> We are good, Rix! I was able to tune up my Celwave/Phelps Dodge 526-4
> no problem (tho insertion loss is a TOUCH high; my calculations work
> out to 1.6dB & published specs are 1dB) and with a little more
> patience I was able to tune my Sinclair Q3220E; insertion loss on it
> is about .9dB.
>
> I still have a touch of de=sense with either duplexer... hooked up to
> a dummy load, there is no noticeable de-sense; hooked up to the
> antenna (2 different ones actually; the first was a Sinclair 310-c2;
> the second and current one is a Decibel Products DB408-4) I have a
> touch of de-sense.
>
> My be an issue with my hardline... Working on a home brew TDR to scope
> the line.
>
> I appreciate you checking on me!
>
> */micomp logo1/*
>
> *//*
>
> */Rusty Auxier, Owner/*
>
> */Manitoulin Island Computers/*
>
> */32 Anglin St. Box 168/*
>
> */Mindemoya, ON P0P 1S0/*

>
> */705.377.7363 - Voice/*
>
> */705.377.7430 - Facsimile/*
>
> /www.micomp.ca/ <http://www.micomp.ca/>//
>
> *From:*hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] *On
> Behalf Of *Rix Seacord
> *Sent:* Sunday, November 20, 2011 12:27 AM
> *To:* hp8924@yahoogroups.com
> *Subject:* Re: [hp8924] Re: 8924E and sweeping a cavity
>
> Rusty
> How did you finally make out?
> I apologize for not getting back to you sooner but too much stuff came up.
> If you still want some one on one, I would gladly give you a call.
> We are only 1 hour apart time zone wise I think.
> Later
> Rix
>
>
> On 10/25/2011 7:23 PM, ve3wva wrote:
>
> HOLY CRAP I CAN SEE IT!!
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> I switched the input to the antenna port and that seems to have
> done it!
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> I will let you guys know how i make out!
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> I would still like to setup the initial power on params... I will
> have a look at that and if I can't figure it out I will give a
> yell back on the list!
>
> THANKS GUYS!
>
> de Rusty
>
> --- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>,
> "ve3wva" <ve3wva@...> <mailto:ve3wva@...> wrote:
> >
> > Hi Rix
> >
> > No it means the button isn't there on the 8924e.
> >
> > Sounds great about customizing the startup on that unit... save
> me a lot of button pushing. I have a great guy in England offering
> to call me and walk me thru a few things too but it's getting a
> bit late for him to be up over across the pond now I think.

> >
> > The step by step thing sounds great!
> >
> > Do you have skype?
> >
> > If not, I can call you to save your phone bill! If you email me
> directly with your phone number I will give you a ring when you
> are free.
> >
> > My direct email (if you can't see it is my callsign @...
> >
> > Thanks again! ve3wva is my call by the way!
> >
> > MUCH APPRECIATED!!
> >
> >
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> > --- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>,
> Rix Seacord <eseacord@> wrote:
> > >
> > > Rusty
> > > Being retired I have too much time on my hands. At least
> according to my
> > > wife.
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> > > I've been trying to find the writeup I mentioned to you
> earlier. I'm
> > > sure that you could get everything up and running with it.
> > > Personaly I don't think using email helps. If you want I could
> call you
> > > at sometime and we could go over this step by step.
> > > One of the first things I found to do was to setup the 8924
> for ham use
> > > so that on power up the settings we need are taken care of.
> > > This is done by setting up the parameters we need then using
> the blue
> > > key/config entering the setting into memory under the name
> poweron.
> > > this now becomes your default setup.
> > > By doing so when the 8924 boots up it will be in spectrum
> analyzer mode,
> > > tracking generator, output to duplex, input antenna, rf gen
> freq around
> > > 445mhz and so on.
> > > When you say the front panel does not have access to certain
> functions,
> > > does this mean they don't come up when you press the button??
> > > Later
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> > >

> > >
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> > > > Hi Robert
> > > > and many many thanks for your input and your offer on the
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> > > > vs 8924c)
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> > > > The HP 8924E does not have front
> > > > panel access to general-purpose analog screens such as:
> > > > ?
>
> ---
> DUPLEX TEST
> > > > ?
> ---
> RX TEST
> > > > ?
> ---
> TX TEST
> > > > ?
> ---
> RF GEN
> > > > ?
> ---
> RF ANL
> > > > ?
> ---
> ACP
> > > > ?
> ---
> ENCODER
> > > > ?
> ---
> DECODER
> > > >
> > > > I am certainly encouraged by what they DON'T versus what
> they DO
> > > > say... they don't say the RX test isn't there, just that
> there is no
> > > > front panel access to it...
> > > >
> > > > It's 8:10 am here and trying to get moving and get the kids
> fed & off
> > > > to school. I will be out in the shack/shop within the hour.
> > > >

> > > > So I will be at it shortly.
> > > >
> > > > If there is anyone on list that has swept a cavity with an
> 8924E I
> > > > would be grateful for their input!! I hope I didn't buy a
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> > > > boat anchor!
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> > > > > Colin has it nailed, certainly for the 8924C. Reading the
> > > > difererences document for the 8924C versus 8924E I'm a little
> > > > concerned about the lack of "front panel access" to the
> analog RF
> > > > generator and duplex testing. This may be an issue for
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> > > > one else has experience of doing this with an "E" maybe we
> can do a
> > > > run through on the phone with me driving my "C" and you
> driving the
> > > > "E". Not sure if you could get the functionallity back with
> a firmware
> > > > update ( "C" ROM retrofit) to the E. Would have to look at
> differences
> > > > in the sevice manual.
> > > > > ?
> > > > > In short has anyone used the Spectrum Analyser and Tracking
> > > > Generator on an? "E"? model 8924?
> > > > > ?
> > > > > ?
> > > > > Robert G8RPI.?
> > > > >
> > > > >
> > > > > _____
> > > > > From: ve3wva <ve3wva@>
> > > > > To: hp8924@yahoogroups.com
> <mailto:hp8924%40yahoogroups.com> <mailto:hp8924%40yahoogroups.com>
> > > > > Sent: Tuesday, 25 October 2011, 6:15
> > > > > Subject: [hp8924] Re: 8924E and sweeping a cavity
> > > > >
> > > > >
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> > > > > Thank you Colin....it,s after 1am here now so I will try

> this tomorrow!
> > > > > I am currently not using the antenna port...guess I need to?
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> > > > > I did find a blurb about the analog rx test not being
> available from
> > > > the front panel on the 8924e where it is on the 8924c....
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> > > > > I have to get some sleep, but I am very anxious to try
> your suggestion!
> > > > > >
> > > > > > A thousand thanks!
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> > > > > > I will let you know how I make out!
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> > > > > > Rusty
> > > > > >
> > > > > > In hp8924@yahoogroups.com
> <mailto:hp8924%40yahoogroups.com>
> <mailto:hp8924%40yahoogroups.com>, "Colin"
> > > > > <vk2kcm@> wrote:
> > > > > > >
> > > > > > > This is based on a HP8921A which I believe is almost the
> same as
> > > > > the HP8924E
> > > > > > >
> > > > > > > Select the Spectrum Analyser
> > > > > > > Under Controls select Main
> > > > > > > Set the input to Antenna in
> > > > > > > Set the required centre frequency
> > > > > > > Set the required span
> > > > > > > Set the Ref Level
> > > > > > >
> > > > > > > Now in the Controls section, change to the Generator
> (I'm at work
> > > > > and not 100% if this is what is is labelled, it is the
> second option,
> > > > > the other 3 are Main, Auxiliary and Marker)
> > > > > > > Select sweep (the generator can be fixed or sweep)
> > > > > > > Select the output port to duplexer out
> > > > > > > Select the RF level
> > > > > > >
> > > > > > > As this port, the screen should be showing what you want.
> > > > > > >
> > > > > > > You can select Marker under controls and move the marker
> around
> > > > > for frequency or level measurement.
> > > > > > >
> > > > > > > If it still doesn't work, let me know and I will
> re-check this
> > > > > once I get home form work.

> > > > > >
> > > > > > Colin
> > > > > > Vk2KCM
> > > > > >
> > > > > >
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> > > > > > > > Thank You all for your input.
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> > > > > > > > I have combed thru everything I can find on Agilent's
> website,
> > > > > repeater-builder.com and googled the crap out of it, but I
> am stuck.
> > > > > Nowhere can I find a walk thru on how to set-up the tracking
> > > > > generator/spectrum analyzer for sweeping a range of frequencies.
> > > > > > > >
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> > > > > > > > I can find LOTS of great general info on duplexer tuning,
> > > > > including this group, but I need a bit more specifics on this
> > > > > particular unit.
> > > > > > > >
> > > > > > > > This project has absolutely consumed ALL (and then
> some!) of my
> > > > > spare time for the past 3 weeks... my wife and kids say "You DO
> > > > > exist!" when i come in from the shack at 12 - 1 am... I am
> hearing a
> > > > > 1kHz tone in my sleep!
> > > > > > > >
> > > > > > > > If there is anyone on the list that has used an
> HP/Agilent 8924e
> > > > > (preferably)or an 892x to actually sweep a duplexer, to
> actually SEE
> > > > > the BP/BR trace on the specan... any kind of step - by -
> step guide on
> > > > > how to set it up would be priceless to me right now.
> > > > > > > >
> > > > > > > > I have the duplexer tuned for the strongest BP signal
> and the
> > > > > weakest BR signal (I hope!) but I absolutely need to see it
> to be sure
> > > > > it's on the money.
> > > > > > > >
> > > > > > > > I am hoping this unit (the 8924e and myself included:)
> can
> > > > > actually do it.
> > > > > > > >

> > > > > > > Thanks again to one and all!
> > > > > > >
> > > > > > > 73 de VE3WVA
> > > > > > >
> > > > > > >
> > > > > > >
> > > > > > > --- In hp8924@yahoogroups.com
> <mailto:hp8924%40yahoogroups.com> <mailto:hp8924%40yahoogroups.com>,
> > > > Jleikhim <rhyolite@> wrote:
> > > > > > > >
> > > > > > > > > 1) having 3 or 6 db pads on the in and out cables of
> the test
> > > > set can help normalize the impedance when tuning up.
> > > > > > > > > 2)the notch is most critical, requiring enough
> signal power
> > > > and sensitivity to see the bottom of the notch. Sometimes
> tuning one
> > > > cavity at a time rather than as a set is best approach.
> > > > > > > > > 3) your 8923 should be up to task if you use good
> double
> > > > shielded cables and avoid adaptors especially poor ones.
> > > > > > > > > 4) if you are satisfied with tuning but still have
> > > > desensitization, then suspect the antenna,transmission lines
> and jumpers
> > > > > > > > > 5) jumpers from RX and Tx should be double shielded
> and never
> > > > clustered together on the rack. Run separately on opposite
> side rack
> > > > rails with cable ties
> > > > > > > > > 6)measuring system desensitization is tricky,
> measure first
> > > > into 50 ohm resistive load, if less than 1 db, then you are
> ok and
> > > > should expect less than 1 db from the antenna unless outside
> noise
> > > > floor is greater than 1 db in which case you have other
> concerns.
> > > > > > > > >
> > > > > > > > > Sent from my iPod
> > > > > > > > >
> > > > > > > >
> > > > > > >
> > > > > >
> > > > >
> > > >
> >
>
>
>

> --
> Rix Seacord (K2AVP)
> Putnam County Radio Officer
> 22 Austin Rd
> Mahopac, NY 10541
> Home 845-628-0892
> Cell 914-262-9186
>
>

# 444. Re: [hp8924] Re: 8924E and sweeping a cavity

Yahoo group: hp8924
Date: 2011-11-27 14:39:07 UTC
From: Tony Brignole
Topic: 394  Message: 444
Attachments: 1 described; binary payloads are missing from this source WARC

Her it is!!! Please let me know if you get it. It works great and is easy to make. Please let me know if this comes through OK!!!

----- Original Message -----
From: ve3wva
To: hp8924@yahoogroups.com
Sent: Tuesday, November 22, 2011 8:19 PM
Subject: [hp8924] Re: 8924E and sweeping a cavity

Hi Tony...
for some reason I can't see the attachment. I am very interested in seeing the circuit tho.
Can you try attaching it again?
Maybe it's my browser...

Thanks!

Rusty

--- In hp8924@yahoogroups.com, "Tony Brignole" <abrigno@...> wrote:
>
>
>
> Here is a homebrew TDR that several of us have built here in Memphis. Original design came from Pat Lane (W4OQG) who is Technical Manager at WKNO here. Parts are readily available and total cost is around $10.
>
> I used this quick cheap design for many years prior to getting a TEK 1503.
>
> You need a pretty quick scope depending on how long your line is. I use a TEK 465 (dual trace 100 MHz) military model and it works great. You have to calculate distance by scope sweep speed and line velocity factor.
>
> One thing we have used it for is to test impendance of unknown lines. You check line and then put pot on end and rotate so line termination at end is flat, then read resistance of pot and you will be line impendance.
>
> ----- Original Message -----
> From: Rusty at Manitoulin Island Computers
> To: hp8924@yahoogroups.com
> Sent: Monday, November 21, 2011 6:03 AM
> Subject: RE: [hp8924] Re: 8924E and sweeping a cavity
>
>
>
>

> We are good, Rix! I was able to tune up my Celwave/Phelps Dodge 526-4 no problem (tho insertion loss is a TOUCH high; my calculations work out to 1.6dB & published specs are 1dB) and with a little more patience I was able to tune my Sinclair Q3220E; insertion loss on it is about .9dB.
>
> I still have a touch of de=sense with either duplexer. hooked up to a dummy load, there is no noticeable de-sense; hooked up to the antenna (2 different ones actually; the first was a Sinclair 310-c2; the second and current one is a Decibel Products DB408-4) I have a touch of de-sense.
>
> My be an issue with my hardline. Working on a home brew TDR to scope the line.
>
>
>
> I appreciate you checking on me!
>
>
>
>
>
>
>
> Rusty Auxier, Owner
>
> Manitoulin Island Computers
>
> 32 Anglin St. Box 168
>
> Mindemoya, ON P0P 1S0
>
> 705.377.7363 - Voice
>
> 705.377.7430 - Facsimile
>
> www.micomp.ca
>
>
>
> From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Rix Seacord
> Sent: Sunday, November 20, 2011 12:27 AM
> To: hp8924@yahoogroups.com
> Subject: Re: [hp8924] Re: 8924E and sweeping a cavity
>
>
>
>
>
> Rusty
> How did you finally make out?
> I apologize for not getting back to you sooner but too much stuff came up.

> If you still want some one on one, I would gladly give you a call.
> We are only 1 hour apart time zone wise I think.
> Later
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> > Do you have skype?
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> > If not, I can call you to save your phone bill! If you email me directly with your phone number I will give you a ring when you are free.
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> > My direct email (if you can't see it is my callsign @...
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> > Thanks again! ve3wva is my call by the way!
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> > MUCH APPRECIATED!!
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> > > > >
> > > > >
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> > > > > From: ve3wva <ve3wva@>
> > > > > To: hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>
> > > > > Sent: Tuesday, 25 October 2011, 6:15

> > > > > Subject: [hp8924] Re: 8924E and sweeping a cavity
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> > > > weakest BR signal (I hope!) but I absolutely need to see it to be sure
> > > > it's on the money.
> > > > > > >
> > > > > > > > I am hoping this unit (the 8924e and myself included:) can
> > > > actually do it.
> > > > > > >
> > > > > > > > Thanks again to one and all!
> > > > > > >
> > > > > > > > 73 de VE3WVA
> > > > > > > >
> > > > > > > >
> > > > > > > >
> > > > > > > > --- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>,
> > > > Jleikhim <rhyolite@> wrote:
> > > > > > > >
> > > > > > > > 1) having 3 or 6 db pads on the in and out cables of the test
> > > > set can help normalize the impedance when tuning up.
> > > > > > > > 2)the notch is most critical, requiring enough signal power
> > > > and sensitivity to see the bottom of the notch. Sometimes tuning one
> > > > cavity at a time rather than as a set is best approach.

> > > > > > > > 3) your 8923 should be up to task if you use good double
> > > > shielded cables and avoid adaptors especially poor ones.
> > > > > > > > 4) if you are satisfied with tuning but still have
> > > > desensitization, then suspect the antenna,transmission lines and jumpers
> > > > > > > > 5) jumpers from RX and Tx should be double shielded and never
> > > > clustered together on the rack. Run separately on opposite side rack
> > > > rails with cable ties
> > > > > > > > 6)measuring system desensitization is tricky, measure first
> > > > into 50 ohm resistive load, if less than 1 db, then you are ok and
> > > > should expect less than 1 db from the antenna unless outside noise
> > > > floor is greater than 1 db in which case you have other concerns.
> > > > > > > >
> > > > > > > > Sent from my iPod
> > > > > > > > >
> > > > > > > >
> > > > > > >
> > > > > >
> > > > >
> > >
>
>
>
>
>
> -- Rix Seacord (K2AVP)Putnam County Radio Officer22 Austin RdMahopac, NY 10541Home
845-628-0892Cell 914-262-9186
>

# 445. Re: 8924E and sweeping a cavity

Yahoo group: hp8924
Date: 2011-11-27 19:38:44 UTC
From: Joe Leikhim
Topic: 394  Message: 445

I had a puzzling desense problem with a commercial low band repeater when used with TX-RX duplexers. The well known manufacturer used two of their mobile radio products in a repeater station along with a power amplifier. The problem as it turned out was a combination of out of band noise from the power amplifier in the HF, 14 MHz range, the out of band response of the duplexer at 14 MHz (Only 10 to 20 dB down) and the fact that the manufacturers mobile receiver used in the package FAILED TIA-603 spurious response rejection. I only figured this out when failing to see any on frequency noise at the receiver port, a light went on and I did some backward IM calculations using the local oscillator as a transmitter, the receiver IF frequency, and then the resulting "hits" I swept with a generator. The worst ones were in the HF band corresponding to a hump in the noise spectrum of the power amplifier. The repeaters were designed to fail and in talking to other customers, found they went through gyrations to make them work. I guess their mobiles worked because the low band base loaded antennas were not good HF antennas.

So before you get too worked up, get a very narrow bandpass filter and insert it between the receiver and the duplexer and make sure nothing out of band is upsetting the apple cart.

--
Joe Leikhim

Leikhim and Associates
Communications Consultants
Oviedo, Florida

www.Leikhim.com

JLeikhim@...

407-982-0446

Note to GMail Account users. Due to an abnormally high volume of spam originating from bogus GMail accounts, I have found it necessary to block certain GMail traffic. Please phone me if you believe your message was not received.

# 446. Re: [hp8924] Re: 8924E and sweeping a cavity

Yahoo group: hp8924
Date: 2011-11-28 03:13:04 UTC
From: Tim Ahrens
Topic: 394  Message: 446

Tony,

Are there no more connections to the 121? Seems that there are some connections not made. (no Cx, untied pins, etc)

Thanks,

Tim

On Nov 27, 2011, at 8:39 AM, "Tony Brignole" <abrigno@...> wrote:

>
>
> Her it is!!! Please let me know if you get it. It works great and is easy to make. Please let me know if this comes through OK!!!
>
> <LANETDRmod.jpg>
>
>
>
>
> ----- Original Message -----
> From: ve3wva
> To: hp8924@yahoogroups.com
> Sent: Tuesday, November 22, 2011 8:19 PM
> Subject: [hp8924] Re: 8924E and sweeping a cavity
>
> Hi Tony...
> for some reason I can't see the attachment. I am very interested in seeing the circuit tho. Can you try attaching it again?
> Maybe it's my browser...
>
> Thanks!
>
> Rusty
>
> --- In hp8924@yahoogroups.com, "Tony Brignole" <abrigno@...> wrote:
> >
> >
> >
> > Here is a homebrew TDR that several of us have built here in Memphis. Original design came from Pat Lane (W4OQG) who is Technical Manager at WKNO here. Parts are readily available and total cost is around $10.
> >
> > I used this quick cheap design for many years prior to getting a TEK 1503.
> >

> > You need a pretty quick scope depending on how long your line is. I use a TEK 465 (dual trace 100 MHz) military model and it works great. You have to calculate distance by scope sweep speed and line velocity factor.
> >
> > One thing we have used it for is to test impendance of unknown lines. You check line and then put pot on end and rotate so line termination at end is flat, then read resistance of pot and you will be line impendance.
> >
> > ----- Original Message -----
> > From: Rusty at Manitoulin Island Computers
> > To: hp8924@yahoogroups.com
> > Sent: Monday, November 21, 2011 6:03 AM
> > Subject: RE: [hp8924] Re: 8924E and sweeping a cavity
> >
> >
> >
> >
> > We are good, Rix! I was able to tune up my Celwave/Phelps Dodge 526-4 no problem (tho insertion loss is a TOUCH high; my calculations work out to 1.6dB & published specs are 1dB) and with a little more patience I was able to tune my Sinclair Q3220E; insertion loss on it is about .9dB.
> >
> > I still have a touch of de=sense with either duplexer. hooked up to a dummy load, there is no noticeable de-sense; hooked up to the antenna (2 different ones actually; the first was a Sinclair 310-c2; the second and current one is a Decibel Products DB408-4) I have a touch of de-sense.
> >
> > My be an issue with my hardline. Working on a home brew TDR to scope the line.
> >
> >
> >
> > I appreciate you checking on me!
> >
> >
> >
> >
> >
> >
> >
> > Rusty Auxier, Owner
> >
> > Manitoulin Island Computers
> >
> > 32 Anglin St. Box 168
> >
> > Mindemoya, ON P0P 1S0
> >
> > 705.377.7363 - Voice
> >
> > 705.377.7430 - Facsimile

> >
> > www.micomp.ca
> >
> >
> >
> > From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Rix Seacord
> > Sent: Sunday, November 20, 2011 12:27 AM
> > To: hp8924@yahoogroups.com
> > Subject: Re: [hp8924] Re: 8924E and sweeping a cavity
> >
> >
> >
> >
> >
> > Rusty
> > How did you finally make out?
> > I apologize for not getting back to you sooner but too much stuff came up.
> > If you still want some one on one, I would gladly give you a call.
> > We are only 1 hour apart time zone wise I think.
> > Later
> > Rix
> >
> >
> > On 10/25/2011 7:23 PM, ve3wva wrote:
> >
> >
> >
> > HOLY CRAP I CAN SEE IT!!
> >
> > I switched the input to the antenna port and that seems to have done it!
> >
> > I will let you guys know how i make out!
> >
> > I would still like to setup the initial power on params... I will have a look at that and if I can't figure it out I will give a yell back on the list!
> >
> > THANKS GUYS!
> >
> > de Rusty
> >
> > --- In hp8924@yahoogroups.com, "ve3wva" <ve3wva@> wrote:
> > >
> > > Hi Rix
> > >
> > > No it means the button isn't there on the 8924e.
> > >
> > > Sounds great about customizing the startup on that unit... save me a lot of button pushing. I have a great guy in England offering to call me and walk me thru a few things too but it's getting a bit late for him to be up over across the pond now I think.
> > >

> > > The step by step thing sounds great!
> > >
> > > Do you have skype?
> > >
> > > If not, I can call you to save your phone bill! If you email me directly with your phone number I will give you a ring when you are free.
> > >
> > > My direct email (if you can't see it is my callsign @...
> > >
> > > Thanks again! ve3wva is my call by the way!
> > >
> > > MUCH APPRECIATED!!
> > >
> > >
> > >
> > > --- In hp8924@yahoogroups.com, Rix Seacord <eseacord@> wrote:
> > > >
> > > > Rusty
> > > > Being retired I have too much time on my hands. At least according to my
> > > > wife.
> > > >
> > > > I've been trying to find the writeup I mentioned to you earlier. I'm
> > > > sure that you could get everything up and running with it.
> > > > Personaly I don't think using email helps. If you want I could call you
> > > > at sometime and we could go over this step by step.
> > > > One of the first things I found to do was to setup the 8924 for ham use
> > > > so that on power up the settings we need are taken care of.
> > > > This is done by setting up the parameters we need then using the blue
> > > > key/config entering the setting into memory under the name poweron.
> > > > this now becomes your default setup.
> > > > By doing so when the 8924 boots up it will be in spectrum analyzer mode,
> > > > tracking generator, output to duplex, input antenna, rf gen freq around
> > > > 445mhz and so on.
> > > > When you say the front panel does not have access to certain functions,
> > > > does this mean they don't come up when you press the button??
> > > > Later
> > > > Rix
> > > >
> > > >
> > > >
> > > > On 10/25/2011 8:15 AM, ve3wva wrote:
> > > > >
> > > > > Hi Robert
> > > > > and many many thanks for your input and your offer on the phone call!
> > > > > maybe we should do that for sure.
> > > > > In the positioning paper citing the differences between the two (8924e
> > > > > vs 8924c)
> > > > >
> > > > > The HP 8924E does not have front
> > > > > panel access to general-purpose analog screens such as:

> > > > > ·
> >
> >
> > ----------
> > DUPLEX TEST
> > > > > ·
> > ----------
> > RX TEST
> > > > > ·
> > ----------
> > TX TEST
> > > > > ·
> > ----------
> > RF GEN
> > > > > ·
> > ----------
> > RF ANL
> > > > > ·
> > ----------
> > ACP
> > > > > ·
> > ----------
> > ENCODER
> > > > > ·
> > ----------
> > DECODER
> > > > >
> > > > > I am certainly encouraged by what they DON'T versus what they DO
> > > > > say... they don't say the RX test isn't there, just that there is no
> > > > > front panel access to it...
> > > > >
> > > > > It's 8:10 am here and trying to get moving and get the kids fed & off
> > > > > to school. I will be out in the shack/shop within the hour.
> > > > >
> > > > > So I will be at it shortly.
> > > > >
> > > > > If there is anyone on list that has swept a cavity with an 8924E I
> > > > > would be grateful for their input!! I hope I didn't buy a proverbial
> > > > > boat anchor!
> > > > >
> > > > > de VE3WVA
> > > > >
> > > > > --- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>,
> > > > > Robert Atkinson <robert8rpi@> wrote:
> > > > > >
> > > > > > Hi Rusty,
> > > > > > Colin has it nailed, certainly for the 8924C. Reading the
> > > > > difererences document for the 8924C versus 8924E I'm a little
> > > > > concerned about the lack of "front panel access" to the analog RF
> > > > > generator and duplex testing. This may be an issue for sweeping. If no

> > > > > one else has experience of doing this with an "E" maybe we can do a
> > > > > run through on the phone with me driving my "C" and you driving the
> > > > > "E". Not sure if you could get the functionallity back with a firmware
> > > > > update ( "C" ROM retrofit) to the E. Would have to look at differences
> > > > > in the sevice manual.
> > > > > > Â
> > > > > > In short has anyone used the Spectrum Analyser and Tracking
> > > > > Generator on anÂ "E"Â model 8924?
> > > > > > Â
> > > > > > Â
> > > > > > Robert G8RPI.Â
> > > > > >
> > > > > >
> > > > > > _____
> > > > > > From: ve3wva <ve3wva@>
> > > > > > To: hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>
> > > > > > Sent: Tuesday, 25 October 2011, 6:15
> > > > > > Subject: [hp8924] Re: 8924E and sweeping a cavity
> > > > > >
> > > > > >
> > > > > > Â
> > > > > >
> > > > > > ---
> > > > > > Thank you Colin....it,s after 1am here now so I will try this tomorrow!
> > > > > > I am currently not using the antenna port...guess I need to?
> > > > > >
> > > > > > I did find a blurb about the analog rx test not being available from
> > > > > the front panel on the 8924e where it is on the 8924c....
> > > > > >
> > > > > > I have to get some sleep, but I am very anxious to try your suggestion!
> > > > > >
> > > > > > A thousand thanks!
> > > > > >
> > > > > > I will let you know how I make out!
> > > > > >
> > > > > > Rusty
> > > > > >
> > > > > > In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>, "Colin"
> > > > > <vk2kcm@> wrote:
> > > > > > >
> > > > > > > This is based on a HP8921A which I believe is almost the same as
> > > > > the HP8924E
> > > > > > >
> > > > > > > Select the Spectrum Analyser
> > > > > > > Under Controls select Main
> > > > > > > Set the input to Antenna in
> > > > > > > Set the required centre frequency
> > > > > > > Set the required span
> > > > > > > Set the Ref Level
> > > > > > >

> > > > > > > Now in the Controls section, change to the Generator (I'm at work
> > > > > and not 100% if this is what is is labelled, it is the second option,
> > > > > the other 3 are Main, Auxiliary and Marker)
> > > > > > > > Select sweep (the generator can be fixed or sweep)
> > > > > > > > Select the output port to duplexer out
> > > > > > > > Select the RF level
> > > > > > > >
> > > > > > > > As this port, the screen should be showing what you want.
> > > > > > > >
> > > > > > > > You can select Marker under controls and move the marker around
> > > > > > for frequency or level measurement.
> > > > > > > >
> > > > > > > > If it still doesn't work, let me know and I will re-check this
> > > > > > once I get home form work.
> > > > > > > >
> > > > > > > > Colin
> > > > > > > > Vk2KCM
> > > > > > > >
> > > > > > > >
> > > > > > > > --- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>,
> > > > > > "ve3wva" <ve3wva@> wrote:
> > > > > > > > >
> > > > > > > > >
> > > > > > > > >
> > > > > > > > > Thank You all for your input.
> > > > > > > > >
> > > > > > > > > I have combed thru everything I can find on Agilent's website,
> > > > > > repeater-builder.com and googled the crap out of it, but I am stuck.
> > > > > > Nowhere can I find a walk thru on how to set-up the tracking
> > > > > > generator/spectrum analyzer for sweeping a range of frequencies.
> > > > > > > > >
> > > > > > > > >
> > > > > > > > > I can find LOTS of great general info on duplexer tuning,
> > > > > > including this group, but I need a bit more specifics on this
> > > > > > particular unit.
> > > > > > > > >
> > > > > > > > > This project has absolutely consumed ALL (and then some!) of my
> > > > > > spare time for the past 3 weeks... my wife and kids say "You DO
> > > > > > exist!" when i come in from the shack at 12 - 1 am... I am hearing a
> > > > > > 1kHz tone in my sleep!
> > > > > > > > >
> > > > > > > > > If there is anyone on the list that has used an HP/Agilent 8924e
> > > > > > (preferably)or an 892x to actually sweep a duplexer, to actually SEE
> > > > > > the BP/BR trace on the specan... any kind of step - by - step guide on
> > > > > > how to set it up would be priceless to me right now.
> > > > > > > > >
> > > > > > > > > I have the duplexer tuned for the strongest BP signal and the
> > > > > > weakest BR signal (I hope!) but I absolutely need to see it to be sure
> > > > > > it's on the money.
> > > > > > > > >

> > > > > > > > I am hoping this unit (the 8924e and myself included:) can
> > > > > actually do it.
> > > > > > > >
> > > > > > > > Thanks again to one and all!
> > > > > > > >
> > > > > > > > 73 de VE3WVA
> > > > > > > >
> > > > > > > >
> > > > > > > >
> > > > > > > > --- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>,
> > > > > Jleikhim <rhyolite@> wrote:
> > > > > > > >
> > > > > > > > > 1) having 3 or 6 db pads on the in and out cables of the test
> > > > > set can help normalize the impedance when tuning up.
> > > > > > > > > 2)the notch is most critical, requiring enough signal power
> > > > > and sensitivity to see the bottom of the notch. Sometimes tuning one
> > > > > cavity at a time rather than as a set is best approach.
> > > > > > > > > 3) your 8923 should be up to task if you use good double
> > > > > shielded cables and avoid adaptors especially poor ones.
> > > > > > > > > 4) if you are satisfied with tuning but still have
> > > > > desensitization, then suspect the antenna,transmission lines and jumpers
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> > > > > > > > > Sent from my iPod
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> > > > > > > >
> > > > > > >
> > > > > >
> > > > >
> > > > >
> > > > >
> > > > >
> > > > >
> > > -- Rix Seacord (K2AVP)Putnam County Radio Officer22 Austin RdMahopac, NY 10541Home
845-628-0892Cell 914-262-9186
> >
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>
>
>

>

# 447. Re: 8924E and sweeping a cavity

Yahoo group: hp8924
Date: 2011-11-30 02:34:23 UTC
From: ve3wva
Topic: 394  Message: 447

Man am I thick or what? I still don't see an attachment... tried 2 different browsers and still don't see it.
Can you attach it to a regular email to my callsign @...? That would be great! I look forward to seeing it!! Thanks and sorry to be such a pain.

my callsign is ve3wva

Rusty

--- In hp8924@yahoogroups.com, "Tony Brignole" <abrigno@...> wrote:
>
> Her it is!!! Please let me know if you get it. It works great and is easy to make. Please let me know if this comes through OK!!!
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> To: hp8924@yahoogroups.com
> Sent: Tuesday, November 22, 2011 8:19 PM
> Subject: [hp8924] Re: 8924E and sweeping a cavity
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> Hi Tony...
> for some reason I can't see the attachment. I am very interested in seeing the circuit tho. Can you try attaching it again?
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> Thanks!
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> Rusty
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> >
> >
> >
> > Here is a homebrew TDR that several of us have built here in Memphis. Original design came from Pat Lane (W4OQG) who is Technical Manager at WKNO here. Parts are readily available and total cost is around $10.
> >
> > I used this quick cheap design for many years prior to getting a TEK 1503.
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> > You need a pretty quick scope depending on how long your line is. I use a TEK 465 (dual trace 100 MHz) military model and it works great. You have to calculate distance by scope sweep speed and line velocity factor.
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> > One thing we have used it for is to test impendance of unknown lines. You check line and then put pot on end and rotate so line termination at end is flat, then read resistance of pot and you will be line impendance.
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> > To: hp8924@yahoogroups.com
> > Sent: Monday, November 21, 2011 6:03 AM
> > Subject: RE: [hp8924] Re: 8924E and sweeping a cavity
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> >
> >
> > We are good, Rix! I was able to tune up my Celwave/Phelps Dodge 526-4 no problem (tho insertion loss is a TOUCH high; my calculations work out to 1.6dB & published specs are 1dB) and with a little more patience I was able to tune my Sinclair Q3220E; insertion loss on it is about .9dB.
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> >
> > My be an issue with my hardline. Working on a home brew TDR to scope the line.
> >
> >
> >
> > I appreciate you checking on me!
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> > Rusty Auxier, Owner
> >
> > Manitoulin Island Computers
> >
> > 32 Anglin St. Box 168
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> > From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Rix Seacord
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> > Rusty
> > How did you finally make out?
> > I apologize for not getting back to you sooner but too much stuff came up.
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> > Later
> > Rix
> >
> >
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> > >
> > > Thanks again! ve3wva is my call by the way!
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> > > MUCH APPRECIATED!!
> > >
> > >
> > >
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> > > > wife.
> > > >
> > > > I've been trying to find the writeup I mentioned to you earlier. I'm
> > > > sure that you could get everything up and running with it.
> > > > Personaly I don't think using email helps. If you want I could call you
> > > > at sometime and we could go over this step by step.
> > > > One of the first things I found to do was to setup the 8924 for ham use
> > > > so that on power up the settings we need are taken care of.
> > > > This is done by setting up the parameters we need then using the blue
> > > > key/config entering the setting into memory under the name poweron.
> > > > this now becomes your default setup.
> > > > By doing so when the 8924 boots up it will be in spectrum analyzer mode,
> > > > tracking generator, output to duplex, input antenna, rf gen freq around
> > > > 445mhz and so on.
> > > > When you say the front panel does not have access to certain functions,
> > > > does this mean they don't come up when you press the button??
> > > > Later
> > > > Rix
> > > >
> > > >
> > > >
> > > > On 10/25/2011 8:15 AM, ve3wva wrote:
> > > > >
> > > > > Hi Robert
> > > > > and many many thanks for your input and your offer on the phone call!
> > > > > maybe we should do that for sure.
> > > > > In the positioning paper citing the differences between the two (8924e
> > > > > vs 8924c)
> > > > >
> > > > > The HP 8924E does not have front
> > > > > panel access to general-purpose analog screens such as:

> > > > > ·
> >
> >
> > ----------
> > DUPLEX TEST
> > > > > ·
> > ----------
> > RX TEST
> > > > > ·
> > ----------
> > TX TEST
> > > > > ·
> > ----------
> > RF GEN
> > > > > ·
> > ----------
> > RF ANL
> > > > > ·
> > ----------
> > ACP
> > > > > ·
> > ----------
> > ENCODER
> > > > > ·
> > ----------
> > DECODER
> > > > >
> > > > > I am certainly encouraged by what they DON'T versus what they DO
> > > > > say... they don't say the RX test isn't there, just that there is no
> > > > > front panel access to it...
> > > > >
> > > > > It's 8:10 am here and trying to get moving and get the kids fed & off
> > > > > to school. I will be out in the shack/shop within the hour.
> > > > >
> > > > > So I will be at it shortly.
> > > > >
> > > > > If there is anyone on list that has swept a cavity with an 8924E I
> > > > > would be grateful for their input!! I hope I didn't buy a proverbial
> > > > > boat anchor!
> > > > >
> > > > > de VE3WVA
> > > > >
> > > > > --- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>,
> > > > > Robert Atkinson <robert8rpi@> wrote:
> > > > > >
> > > > > > Hi Rusty,
> > > > > > Colin has it nailed, certainly for the 8924C. Reading the
> > > > > difererences document for the 8924C versus 8924E I'm a little
> > > > > concerned about the lack of "front panel access" to the analog RF
> > > > > generator and duplex testing. This may be an issue for sweeping. If no

> > > > > one else has experience of doing this with an "E" maybe we can do a
> > > > > run through on the phone with me driving my "C" and you driving the
> > > > > "E". Not sure if you could get the functionallity back with a firmware
> > > > > update ( "C" ROM retrofit) to the E. Would have to look at differences
> > > > > in the sevice manual.
> > > > > > Â
> > > > > > In short has anyone used the Spectrum Analyser and Tracking
> > > > > Generator on anÂ "E"Â model 8924?
> > > > > > Â
> > > > > > Â
> > > > > > Robert G8RPI.Â
> > > > > >
> > > > > >
> > > > > > _____
> > > > > > From: ve3wva <ve3wva@>
> > > > > > To: hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>
> > > > > > Sent: Tuesday, 25 October 2011, 6:15
> > > > > > Subject: [hp8924] Re: 8924E and sweeping a cavity
> > > > > >
> > > > > >
> > > > > > Â
> > > > > >
> > > > > > ---
> > > > > > Thank you Colin....it,s after 1am here now so I will try this tomorrow!
> > > > > > I am currently not using the antenna port...guess I need to?
> > > > > >
> > > > > > I did find a blurb about the analog rx test not being available from
> > > > > the front panel on the 8924e where it is on the 8924c....
> > > > > >
> > > > > > I have to get some sleep, but I am very anxious to try your suggestion!
> > > > > >
> > > > > > A thousand thanks!
> > > > > >
> > > > > > I will let you know how I make out!
> > > > > >
> > > > > > Rusty
> > > > > >
> > > > > > In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>, "Colin"
> > > > > <vk2kcm@> wrote:
> > > > > > >
> > > > > > > This is based on a HP8921A which I believe is almost the same as
> > > > > the HP8924E
> > > > > > >
> > > > > > > Select the Spectrum Analyser
> > > > > > > Under Controls select Main
> > > > > > > Set the input to Antenna in
> > > > > > > Set the required centre frequency
> > > > > > > Set the required span
> > > > > > > Set the Ref Level
> > > > > > >

> > > > > > > Now in the Controls section, change to the Generator (I'm at work
> > > > > and not 100% if this is what is is labelled, it is the second option,
> > > > > the other 3 are Main, Auxiliary and Marker)
> > > > > > > > Select sweep (the generator can be fixed or sweep)
> > > > > > > > Select the output port to duplexer out
> > > > > > > > Select the RF level
> > > > > > > >
> > > > > > > > As this port, the screen should be showing what you want.
> > > > > > > >
> > > > > > > > You can select Marker under controls and move the marker around
> > > > > > for frequency or level measurement.
> > > > > > > >
> > > > > > > > If it still doesn't work, let me know and I will re-check this
> > > > > > once I get home form work.
> > > > > > > >
> > > > > > > > Colin
> > > > > > > > Vk2KCM
> > > > > > > >
> > > > > > > >
> > > > > > > > --- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>,
> > > > > > "ve3wva" <ve3wva@> wrote:
> > > > > > > > >
> > > > > > > > >
> > > > > > > > >
> > > > > > > > > Thank You all for your input.
> > > > > > > > >
> > > > > > > > > I have combed thru everything I can find on Agilent's website,
> > > > > > repeater-builder.com and googled the crap out of it, but I am stuck.
> > > > > > Nowhere can I find a walk thru on how to set-up the tracking
> > > > > > generator/spectrum analyzer for sweeping a range of frequencies.
> > > > > > > > >
> > > > > > > > >
> > > > > > > > > I can find LOTS of great general info on duplexer tuning,
> > > > > > including this group, but I need a bit more specifics on this
> > > > > > particular unit.
> > > > > > > > >
> > > > > > > > > This project has absolutely consumed ALL (and then some!) of my
> > > > > > spare time for the past 3 weeks... my wife and kids say "You DO
> > > > > > exist!" when i come in from the shack at 12 - 1 am... I am hearing a
> > > > > > 1kHz tone in my sleep!
> > > > > > > > >
> > > > > > > > > If there is anyone on the list that has used an HP/Agilent 8924e
> > > > > > (preferably)or an 892x to actually sweep a duplexer, to actually SEE
> > > > > > the BP/BR trace on the specan... any kind of step - by - step guide on
> > > > > > how to set it up would be priceless to me right now.
> > > > > > > > >
> > > > > > > > > I have the duplexer tuned for the strongest BP signal and the
> > > > > > weakest BR signal (I hope!) but I absolutely need to see it to be sure
> > > > > > it's on the money.
> > > > > > > > >

> > > > > > > > I am hoping this unit (the 8924e and myself included:) can
> > > > > actually do it.
> > > > > > > >
> > > > > > > > Thanks again to one and all!
> > > > > > > >
> > > > > > > > 73 de VE3WVA
> > > > > > > >
> > > > > > > >
> > > > > > > >
> > > > > > > > --- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>,
> > > > > Jleikhim <rhyolite@> wrote:
> > > > > > > >
> > > > > > > > > 1) having 3 or 6 db pads on the in and out cables of the test
> > > > > set can help normalize the impedance when tuning up.
> > > > > > > > > 2)the notch is most critical, requiring enough signal power
> > > > > and sensitivity to see the bottom of the notch. Sometimes tuning one
> > > > > cavity at a time rather than as a set is best approach.
> > > > > > > > > 3) your 8923 should be up to task if you use good double
> > > > > shielded cables and avoid adaptors especially poor ones.
> > > > > > > > > 4) if you are satisfied with tuning but still have
> > > > > desensitization, then suspect the antenna,transmission lines and jumpers
> > > > > > > > > 5) jumpers from RX and Tx should be double shielded and never
> > > > > clustered together on the rack. Run separately on opposite side rack
> > > > > rails with cable ties
> > > > > > > > > 6)measuring system desensitization is tricky, measure first
> > > > > into 50 ohm resistive load, if less than 1 db, then you are ok and
> > > > > should expect less than 1 db from the antenna unless outside noise
> > > > > floor is greater than 1 db in which case you have other concerns.
> > > > > > > >
> > > > > > > > > Sent from my iPod
> > > > > > > >
> > > > > > > >
> > > > > > >
> > > > > >
> > > > >
> > > > >
> > > > >
> > > > >
> > > > >
> > > -- Rix Seacord (K2AVP)Putnam County Radio Officer22 Austin RdMahopac, NY 10541Home
845-628-0892Cell 914-262-9186
> >
>

# 448. IF bandwidth

Yahoo group: hp8924
Date: 2011-12-01 00:03:50 UTC
From: Mike
Topic: 448  Message: 448

What is the minimum IF bandwidth for the 8924C, and will it resolves SSB sidebands?

Tks miken, zl1bnb

# 449. Re: [hp8924] IF bandwidth

Yahoo group: hp8924
Date: 2011-12-01 01:56:43 UTC
From: keith
Topic: 448  Message: 449

It does demodulate SSB. Look in the demodulator options AM FM SSB etc.

From: Mike
Sent: Thursday, December 01, 2011 1:03 PM
To: hp8924@yahoogroups.com
Subject: [hp8924] IF bandwidth

What is the minimum IF bandwidth for the 8924C, and will it resolves SSB sidebands?

Tks miken, zl1bnb

# 450. Re: [hp8924] IF bandwidth

Yahoo group: hp8924
Date: 2011-12-01 03:26:18 UTC
From: Ralph Mowery
Topic: 448  Message: 450

From their spec sheet for the spectrum analizer.

Frequency Span/Resolution Bandwidth (coupled)
Standard:
Span Bandwidth
<50 kHz 300 Hz
<200 kHz 1 kHz
<1.5 MHz 3 kHz
<18 MHz 30 kHz
≥18 MHz 300 kHz

--- On Wed, 11/30/11, Mike <mnewman@...> wrote:

From: Mike <mnewman@...t.nz>
Subject: [hp8924] IF bandwidth
To: hp8924@yahoogroups.com
Date: Wednesday, November 30, 2011, 7:03 PM

What is the minimum IF bandwidth for the 8924C, and will it resolves SSB sidebands?

Tks  miken,  zl1bnb

---

# 451. Re: IF bandwidth

Yahoo group: hp8924
Date: 2011-12-01 17:31:57 UTC
From: robert8rpi
Topic: 448  Message: 451

Hi Mike,
The selectable IF bandwidths are 15kHz and 230kHz. There is also a <20Hz, 50Hz or 300Hz HPF and a 300Hz, 3kHz, 15kHz >99kHz LPF or 6kHz BPF on the audio analyser. Also a notch filter and a bunch of specialist Call and CDMA filters. It has an SSB demodulator. I've also been considering building a quadrature downconverter for the 21.4MHz IF output to use 8924C as a front end for a soundcard based SDR.

Robert G8RPI.

--- In hp8924@yahoogroups.com, "Mike" <mnewman@...> wrote:
>
> What is the minimum IF bandwidth for the 8924C, and will it resolves SSB sidebands?
>
> Tks miken, zl1bnb
>

# 452. Re: IF bandwidth

Yahoo group: hp8924
Date: 2011-12-01 17:46:11 UTC
From: Joe Leikhim
Topic: 448  Message: 452

I think what he is asking is wether the IF bandwidth (not resolution BW) is marrow enough to discriminate upper Vs lower sidebands. I do not believe this to be the case. A narrow BW of approx 2-3 KHz would be required.

Sent from my iPod

# 453. Re: IF bandwidth

Yahoo group: hp8924
Date: 2011-12-01 20:13:45 UTC
From: Mike Newman
Topic: 448  Message: 453

My question is really about how useful the 8924c in spectrum analyser mode is in displaying upper and lower sidebands and carrier suppression, and for testing and adjusting narrow (cw and ssb) homebrewed crystal filters.
73 de miken

# 454. Re: IF bandwidth

Yahoo group: hp8924
Date: 2011-12-02 18:32:21 UTC
From: robert8rpi
Topic: 448  Message: 454

Hi Miken
At 300Hz RBW and 50kHz scan, the answer is yes, the 8924C has the resolution you need. It also has the tracking generator to provide the input. The biggest issue is any mismatch between the 50R impedance of the 8924C and your filters impedance. Unless you are designing the filter for 50R you will have to use some kind of matching network or buffer amplifier.

Robert G8RPI.

--- In hp8924@yahoogroups.com, Mike Newman <mnewman@...> wrote:
>
> My question is really about how useful the 8924c in spectrum analyser
> mode is in displaying upper and lower sidebands and carrier suppression,
> and for testing and adjusting narrow (cw and ssb) homebrewed crystal
> filters.
> 73 de miken
>

# 455. Re: IF bandwidth

Yahoo group: hp8924
Date: 2011-12-02 20:59:32 UTC
From: Joe Leikhim
Topic: 448  Message: 455

I think you should be fine with the spectrum analyzer. See if you can find the following or similar named document from Agilent website or elsewhere. 8920A_B Application Handbook.pdf

There are some inconsistencies in the manua as they assume your test set has a 60 watt attenuator internally for some tests which the 8924 normally does not have. You will need a dummy load and sampler, or a suitable attenuator for the transmitter.

--
Joe Leikhim

Leikhim and Associates
Communications Consultants
Oviedo, Florida

www.Leikhim.com

JLeikhim@...

407-982-0446

Note to GMail Account users. Due to an abnormally high volume of spam originating from bogus GMail accounts, I have found it necessary to block certain GMail traffic. Please phone me if you believe your message was not received.

# 456. New file uploaded to hp8924

Yahoo group: hp8924
Date: 2011-12-02 21:02:28 UTC
From: hp8924@yahoogroups.com
Topic: 31  Message: 456

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hp8924
group.

File : /8920A_B Application Handbook.pdf
Uploaded by : rfiemiguy <rhyolite@...>
Description : 8920A_B Application Handbook

You can access this file at the URL:
http://groups.yahoo.com/group/hp8924/files/8920A_B%20Application%20Handbook.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

rfiemiguy <rhyolite@...>

# 457. Re: IF bandwidth

Yahoo group: hp8924
Date: 2011-12-02 21:03:20 UTC
From: Joe Leikhim
Topic: 448  Message: 457

Mike I just uploaded 8920A_B Application Handbook.pdf to the FILES section of this group.

--
Joe Leikhim

Leikhim and Associates
Communications Consultants
Oviedo, Florida

www.Leikhim.com

JLeikhim@...

407-982-0446

Note to GMail Account users. Due to an abnormally high volume of spam originating from bogus GMail accounts, I have found it necessary to block certain GMail traffic. Please phone me if you believe your message was not received.

# 458. Modulation Out?

Yahoo group: hp8924
Date: 2011-12-05 16:26:21 UTC
From: tahrens301
Topic: 458  Message: 458

Hi folks,

Is there a way to get demodulated audio out of the box?

Appears that the 'audio out' connector is only for AFgen1/2 signals.

Actually, I was playing with the box the other night... listening to a conversation on 40m SSB. (It does a great job of SSB demod... very stable too - a lot more stable than the Mot R2002)!

Anyhow, got to playing & tried to re-route the audio in the duplex mode to send it out on a 2m FM frequency into a dummy load. Purely as an exercise. Couldn't see how to get the audio path done.

Just curious.

thanks,

Tim

# 459. Re: Modulation Out?

Yahoo group: hp8924
Date: 2011-12-05 20:36:19 UTC
From: Joe Leikhim
Topic: 458  Message: 459

You might want to see if an assembly level service manual exists on the agilent site. If not the 8920B SM manual includes a simplified block diagram of the audio routing.

--
Joe Leikhim

Leikhim and Associates
Communications Consultants
Oviedo, Florida

www.Leikhim.com

JLeikhim@...

407-982-0446

Note to GMail Account users. Due to an abnormally high volume of spam originating from bogus GMail accounts, I have found it necessary to block certain GMail traffic. Please phone me if you believe your message was not received.

# 460. Re: [hp8924] Modulation Out?

Yahoo group: hp8924
Date: 2011-12-05 22:29:31 UTC
From: Robert A. Poff WB3AWJ
Topic: 458  Message: 460

Rear panel - "AUD MONITOR OUTPUT".

I actually even used it to set up an ersatz Allstar repeater once.

Robert A. Poff
Loganville, PA.

"Lieutenant, target the offending power boat and launch photon torpedoes"
----- Original Message -----
From: "tahrens301" <tahrens@...>
To: hp8924@yahoogroups.com
Sent: Monday, December 5, 2011 11:26:21 AM
Subject: [hp8924] Modulation Out?

Hi folks,

Is there a way to get demodulated audio out of the box?

Appears that the 'audio out' connector is only for AFgen1/2 signals.

Actually, I was playing with the box the other night... listening to a conversation on 40m SSB. (It does a great job of SSB demod... very stable too - a lot more stable than the Mot R2002)!

Anyhow, got to playing & tried to re-route the audio in the duplex mode to send it out on a 2m FM frequency into a dummy load. Purely as an exercise. Couldn't see how to get the audio path done.

Just curious.

thanks,

Tim

# 461. Re: [hp8924] Modulation Out?

Yahoo group: hp8924
Date: 2011-12-05 23:16:40 UTC
From: Tim Ahrens
Topic: 458  Message: 461

Thanks Robert - found that output a little while ago. Guess I missed it first
time I scanned the back panel.

Hooked up a scope and saw the received audio.

Plugged it into the modulation input jack (right next to it), but
don't see a field that will let me select it (also mic) as the source of
audio.

I understand that this 'Modulation in' jack is tied in with the microphone jack on
the front. Do I need to 'key' the mic to allow this audio to flow?

Thanks,

TIm
On Mon, Dec 5, 2011 at 4:29 PM, Robert A. Poff WB3AWJ <wb3awj@...>wrote:

>
>
> Rear panel - "AUD MONITOR OUTPUT".
>
> I actually even used it to set up an ersatz Allstar repeater once.
>
>
> Robert A. Poff
> Loganville, PA.
>
> ****
> "Lieutenant, target the offending power boat and launch photon torpedoes"
>
> ----------
> *From: *"tahrens301" <tahrens@...>
> *To: *hp8924@yahoogroups.com
> *Sent: *Monday, December 5, 2011 11:26:21 AM
> *Subject: *[hp8924] Modulation Out?
>
>
>
> Hi folks,
>
> Is there a way to get demodulated audio out of the box?
>
> Appears that the 'audio out' connector is only for AFgen1/2 signals.
>

> Actually, I was playing with the box the other night... listening to a
> conversation on 40m SSB. (It does a great job of SSB demod... very stable
> too - a lot more stable than the Mot R2002)!
>
> Anyhow, got to playing & tried to re-route the audio in the duplex mode to
> send it out on a 2m FM frequency into a dummy load. Purely as an exercise.
> Couldn't see how to get the audio path done.
>
> Just curious.
>
> thanks,
>
> Tim
>
>
>

# 462. Re: IF bandwidth

Yahoo group: hp8924
Date: 2011-12-07 20:58:03 UTC
From: Mike Newman
Topic: 448  Message: 462

Thanks guys for the answers to my query.
I've bought one of these, it's my Xmas gift to me.
It will be a big learning curve, so expect some more questions.
73 de miken, zl1bnb

# 463. New file uploaded to hp8924

Yahoo group: hp8924
Date: 2011-12-08 05:58:26 UTC
From: hp8924@yahoogroups.com
Topic: 31  Message: 463

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hp8924
group.

File : /HP-8920a and HP8920b related/5965-3296E.pdf
Uploaded by : skipp025 <skipp025@...>
Description : HP 8920B Option 800 for TDMA Test

You can access this file at the URL:
http://groups.yahoo.com/group/hp8924/files/HP-8920a%20and%20HP8920b%20related/5965-3296E.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

skipp025 <skipp025@...>

# 464. New file uploaded to hp8924

Yahoo group: hp8924
Date: 2011-12-08 05:59:33 UTC
From: hp8924@yahoogroups.com
Topic: 31  Message: 464

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hp8924
group.

File : /HP-8920a and HP8920b related/5968-1379E.pdf
Uploaded by : skipp025 <skipp025@...>
Description : 11807A Radio Test Software for the 8920A and 11807E for the 8920B

You can access this file at the URL:
http://groups.yahoo.com/group/hp8924/files/HP-8920a%20and%20HP8920b%20related/5968-1379E.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

skipp025 <skipp025@...>

# 465. New file uploaded to hp8924

Yahoo group: hp8924
Date: 2011-12-08 06:00:35 UTC
From: hp8924@yahoogroups.com
Topic: 31  Message: 465

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hp8924
group.

File : /HP-8920a and HP8920b related/5968-4605E.pdf
Uploaded by : skipp025 <skipp025@...>
Description : HP E8285A CDMA Mobile Station Test Set

You can access this file at the URL:
http://groups.yahoo.com/group/hp8924/files/HP-8920a%20and%20HP8920b%20related/5968-4605E.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

skipp025 <skipp025@...>

# 466. New file uploaded to hp8924

Yahoo group: hp8924
Date: 2011-12-08 06:02:20 UTC
From: hp8924@yahoogroups.com
Topic: 31  Message: 466

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hp8924
group.

File : /HP-8920a and HP8920b related/08920-90126.pdf
Uploaded by : skipp025 <skipp025@...>
Description : HP-8920A & HP-8920B RF Comm Test Application Handbook

You can access this file at the URL:
http://groups.yahoo.com/group/hp8924/files/HP-8920a%20and%20HP8920b%20related/08920-90126.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

skipp025 <skipp025@...>

# 467. New file uploaded to hp8924

Yahoo group: hp8924
Date: 2011-12-08 06:07:48 UTC
From: hp8924@yahoogroups.com
Topic: 31  Message: 467

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hp8924
group.

File : /HP-8920a and HP8920b related/11807-90119.pdf
Uploaded by : skipp025 <skipp025@...>
Description : AMPS/EAMPS/NAMPS Cellular Test HP 11807A,E Option 004 Software User's Guid

You can access this file at the URL:
http://groups.yahoo.com/group/hp8924/files/HP-8920a%20and%20HP8920b%20related/11807-90119.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

skipp025 <skipp025@...>

# 468. New file uploaded to hp8924

Yahoo group: hp8924
Date: 2011-12-08 06:09:25 UTC
From: hp8924@yahoogroups.com
Topic: 31  Message: 468

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hp8924
group.

File : /HP-8920a and HP8920b related/11807-90125.pdf
Uploaded by : skipp025 <skipp025@...>
Description : LTR Trunked Option 010 Software User's Guide For the HP8921A,B

You can access this file at the URL:
http://groups.yahoo.com/group/hp8924/files/HP-8920a%20and%20HP8920b%20related/11807-90125.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

skipp025 <skipp025@...>

# 469. New file uploaded to hp8924

Yahoo group: hp8924
Date: 2011-12-08 06:10:46 UTC
From: hp8924@yahoogroups.com
Topic: 31  Message: 469

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hp8924
group.

File : /HP-8920a and HP8920b related/11807-90126.pdf
Uploaded by : skipp025 <skipp025@...>
Description : EDACS Trunked Mobile Radio Test Option 011 Software Users Guide

You can access this file at the URL:
http://groups.yahoo.com/group/hp8924/files/HP-8920a%20and%20HP8920b%20related/11807-90126.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

skipp025 <skipp025@...>

# 470. New file uploaded to hp8924

Yahoo group: hp8924
Date: 2011-12-08 06:12:21 UTC
From: hp8924@yahoogroups.com
Topic: 31  Message: 470

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hp8924
group.

File : /HP-8920a and HP8920b related/PROG8920FAM.pdf
Uploaded by : skipp025 <skipp025@...>
Description : HPIB and more.

You can access this file at the URL:
http://groups.yahoo.com/group/hp8924/files/HP-8920a%20and%20HP8920b%20related/PROG8920FAM.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

skipp025 <skipp025@...>

# 471. New file uploaded to hp8924

Yahoo group: hp8924
Date: 2011-12-08 06:14:00 UTC
From: hp8924@yahoogroups.com
Topic: 31  Message: 471

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hp8924
group.

File : /HP-8920a and HP8920b related/UG83206-90002.pdf
Uploaded by : skipp025 <skipp025@...>
Description : HP 83206A TIA/EIA-136 Cellular Adapter Users Guide

You can access this file at the URL:
http://groups.yahoo.com/group/hp8924/files/HP-8920a%20and%20HP8920b%20related/UG83206-90002.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

skipp025 <skipp025@...>

# 472. More files to come

Yahoo group: hp8924
Date: 2011-12-08 06:31:43 UTC
From: skipp025
Topic: 472  Message: 472

As you can see... I've posted a number of manuals
and users guides to the Group Files Section. I have
more to post, I just have to reduce the file size to
get under Yahoo's 5MB limit. Probably get that done
in a day or two.

enjoy,
skipp

# 473. New file uploaded to hp8924

Yahoo group: hp8924
Date: 2011-12-10 16:22:54 UTC
From: hp8924@yahoogroups.com
Topic: 31  Message: 473

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hp8924
group.

File : /RF Power Table.xlsx
Uploaded by : kc9adk <drspinbag@...>
Description : An Excel file that I made for quick lookup from dBm-Volts-Watts. The index row follows as you scroll down.

You can access this file at the URL:
http://groups.yahoo.com/group/hp8924/files/RF%20Power%20Table.xlsx

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

kc9adk <drspinbag@...>

# 474. External Attenuators for HP8924

Yahoo group: hp8924
Date: 2011-12-11 22:25:47 UTC
From: Mike
Topic: 474  Message: 474

Wondering what external attenuators folks are using with the 3-watt version of the -8924 when working with higher power radios.

With 15 dB of attenuation, I should be able to run ~ 100 watts, but obviously it's going to take some high-power attenuators. Eventually I want to install the 60 watt upgrade to the 8924, but will still have use for the attenuator(s) after that, so they won't go to waste.

Currently I'm using an iso-tee, but that means I can only run relative measurements, since the isolation of the iso-tee is variable.
73,

Mike
WM4B

# 475. Re: [hp8924] External Attenuators for HP8924

Yahoo group: hp8924
Date: 2011-12-11 22:34:50 UTC
From: Rich Osman
Topic: 474  Message: 475

On 12/11/2011 4:25 PM, Mike wrote:
>
>
> Wondering what external attenuators folks are using with the 3-watt
> version of the -8924 when working with higher power radios.
>
> With 15 dB of attenuation, I should be able to run ~ 100 watts, but
> obviously it's going to take some high-power attenuators. Eventually I
> want to install the 60 watt upgrade to the 8924, but will still have
> use for the attenuator(s) after that, so they won't go to waste.
>
> Currently I'm using an iso-tee, but that means I can only run relative
> measurements, since the isolation of the iso-tee is variable.
> 73,
>
> Mike
> WM4B
>
I have a 20 dB 100 watt attenuator that I use with my 8921. I just
leave it inline and the box runs cooler. On receive the math is easy,
but the decimal point one place to the left.

--
mailto:lists@... http://www.n1oz.net ARS: N1OZ
Rich Osman; POB 93167; Southlake, TX 76092 (Near DFW Airport)

# 476. RE: [hp8924] External Attenuators for HP8924

Yahoo group: hp8924
Date: 2011-12-11 22:52:15 UTC
From: Mike (WM4B)
Topic: 474  Message: 476

Duh that□s too easy.

I should have thought of that!

73,

Mike
WM4B
From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of
Rich Osman
Sent: Sunday, December 11, 2011 5:35 PM
To: hp8924@yahoogroups.com
Cc: Mike
Subject: Re: [hp8924] External Attenuators for HP8924
I have a 20 dB 100 watt attenuator that I use with my 8921.  I just leave it
inline and the box runs cooler. On receive the math is easy, but the decimal
point one place to the left.

--
mailto:lists@... http://www.n1oz.net ARS: N1OZ
Rich Osman; POB 93167; Southlake, TX 76092 (Near DFW Airport)

# 477. Re: [hp8924] External Attenuators for HP8924

Yahoo group: hp8924
Date: 2011-12-12 10:24:53 UTC
From: Robert Atkinson
Topic: 474  Message: 477

Hi Mike and Mike,
You can tell the 8924C what value of external attenuator you are using and it automatically corrects all displayed values on the 8924C.

I've used two different attenuators. one is a 150W 30dB surplus unit that came from an analog cell phone base station. It has a  tab mounted stripline attenuator on a heatsink. The other is an old Racal 9102 Absorption powermeter which has a -36dB output.
As we are talking high levels of attenuation and don't need an exact value of attenuation, there is an other option. This is to use a 50R terminator (stripline or coax dummy load) as the input resistor in a L  pad attenuator or resistive tap. Obviously the grounded terminator resistor is the input side. Of note is the voltage across the series resistor. It is worth making this from two or three resistors in series to improve the voltage capability and reduce capacitance. No need to trim for an exact attenuation value, just measure it (with your 8924C) and enter the value into the 8924C.

Robert G8RPI.

---
From: Mike (WM4B) <mwbesemer@...>
To: hp8924@yahoogroups.com
Sent: Sunday, 11 December 2011, 22:52
Subject: RE: [hp8924] External Attenuators for HP8924

Duh… that’s too easy.

I should have thought of that!

73,

Mike
WM4B
From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of
Rich Osman
Sent: Sunday, December 11, 2011 5:35 PM
To: hp8924@yahoogroups.com
Cc: Mike
Subject: Re: [hp8924] External Attenuators for HP8924
I have a 20 dB 100 watt attenuator that I use with my 8921.  I just leave it inline and the box runs cooler. On receive the math is easy, but the decimal point one place to the left.

--
mailto:lists@... http://www.n1oz.net ARS: N1OZ
Rich Osman; POB 93167; Southlake, TX 76092 (Near DFW Airport)

# 478. Modifying internal 3W attenuator (Assembly A4)

Yahoo group: hp8924
Date: 2011-12-12 22:34:22 UTC
From: c_day_nz
Topic: 478  Message: 478

I have a standard 8924C which handles 3W max. I want to replace the flange attenuator inside unit A4 with a 20dB 100W H100NA20X4 Anaren attenuator. Can anyone confirm if the original HP attenuator is indeed 4dB? With the new attenuator fitted, do I just update the appropriate configuration screen with a 16dB offset? Also, given the new attenuator will handle 100W, will I be OK to measure 100W or would this exceed the test set input? Note my main use for the analyzer is testing / repairing / aligning HF SSB 100W & the odd 2m/70cm 20~50W FM gear. So super accuracy is not a key requirement.

AND a huge thanks to group members - I was able to repair my 8924C PSU and am part way through replacing the CRT with a TFT display. Only possible with help from this group.

Cheers & 73s
Chris ZL1CVD.

# 479. Re: [hp8924] Modifying internal 3W attenuator (Assembly A4)

Yahoo group: hp8924
Date: 2011-12-12 22:47:34 UTC
From: Tim Ahrens
Topic: 478  Message: 479

Hi Chris,

According to the manuals, it appears to be 4dB. Of course, you could always undo the two SMA connectors, and use the 8924 to verify that!

On the TFT display, are you pulling the composite video from the back panel? Sounds like a pretty nice addition.

Just upgraded to a 100w attenuator (replacement for the 3W), and it was an easy modification. I went to the trouble of pulling the front panel out, etc, but in the end, I think I could have done it all by just pulling off the top covers.

Tim

On Mon, Dec 12, 2011 at 4:34 PM, c_day_nz <c_day@...> wrote:

> I have a standard 8924C which handles 3W max. I want to replace the flange
> attenuator inside unit A4 with a 20dB 100W H100NA20X4 Anaren attenuator.
> Can anyone confirm if the original HP attenuator is indeed 4dB? With the
> new attenuator fitted, do I just update the appropriate configuration
> screen with a 16dB offset? Also, given the new attenuator will handle 100W,
> will I be OK to measure 100W or would this exceed the test set input? Note
> my main use for the analyzer is testing / repairing / aligning HF SSB 100W
> & the odd 2m/70cm 20~50W FM gear. So super accuracy is not a key
> requirement.
>
> AND a huge thanks to group members - I was able to repair my 8924C PSU and
> am part way through replacing the CRT with a TFT display. Only possible
> with help from this group.
>
> Cheers & 73s
> Chris ZL1CVD.
>
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>
> Yahoo! Groups Links
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# 480. Re: Modifying internal 3W attenuator (Assembly A4)

Yahoo group: hp8924
Date: 2011-12-13 16:58:35 UTC
From: kb9jzy
Topic: 478  Message: 480

Hi Chris,

I'm expecting Santa to deliver a 8924C this Christmas.
One of her "elves" was asking about display repair. So, I guess
that means I'll have a bit of work to do.
I would PREFER to do a TFT conversion, rather than simply replacing the CRT. Which are getting harder to find and since have been in
some sort of storage, my guess is, like transmitting tubes, do develop leaks and other problems due to long term storage.

Where can I find the information and parts required to do this?
Any help, thoughts and ideas would be greatly appreciated.

Terry K9HA
OLD CALL KB9JZY

--- In hp8924@yahoogroups.com, "c_day_nz" <c_day@...> wrote:
>
> I have a standard 8924C which handles 3W max. I want to replace the flange attenuator inside unit A4 with a 20dB 100W H100NA20X4 Anaren attenuator. Can anyone confirm if the original HP attenuator is indeed 4dB? With the new attenuator fitted, do I just update the appropriate configuration screen with a 16dB offset? Also, given the new attenuator will handle 100W, will I be OK to measure 100W or would this exceed the test set input? Note my main use for the analyzer is testing / repairing / aligning HF SSB 100W & the odd 2m/70cm 20~50W FM gear. So super accuracy is not a key requirement.
>
> AND a huge thanks to group members - I was able to repair my 8924C PSU and am part way through replacing the CRT with a TFT display. Only possible with help from this group.
>
> Cheers & 73s
> Chris ZL1CVD.
>

# 481. Display repair: was Modifying internal 3W attenuator (Assembly A4)

Yahoo group: hp8924
Date: 2011-12-13 17:43:40 UTC
From: Robert Atkinson
Topic: 478  Message: 481

Hi Terry,
Don't know of a direct replacement module for the 89XX. However if you search the list you will find info on using a video standards converter designed for video games to drive an external VGA display from the 8924C's video port. As an option you might be able to fit a mini (7" possibly) VGA monitor in place of the CRT module.

HTH,
Robert G8RPI.

---
From: kb9jzy <kb9jzy@...>
To: hp8924@yahoogroups.com
Sent: Tuesday, 13 December 2011, 16:58
Subject: [hp8924] Re: Modifying internal 3W attenuator (Assembly A4)

Hi Chris,

I'm expecting Santa to deliver a 8924C this Christmas.
One of her "elves" was asking about display repair. So, I guess
that means I'll have a bit of work to do.
I would PREFER to do a TFT conversion, rather than simply replacing the CRT. Which are getting harder to find and since have been in
some sort of storage, my guess is, like transmitting tubes, do develop leaks and other problems due to long term storage.

Where can I find the information and parts required to do this?
Any help, thoughts and ideas would be greatly appreciated.

Terry K9HA
OLD CALL KB9JZY

--- In hp8924@yahoogroups.com, "c_day_nz" <c_day@...> wrote:
>
> I have a standard 8924C which handles 3W max. I want to replace the flange attenuator inside unit A4 with a 20dB 100W H100NA20X4 Anaren attenuator. Can anyone confirm if the original HP attenuator is indeed 4dB? With the new attenuator fitted, do I just update the appropriate configuration screen with a 16dB offset? Also, given the new attenuator will handle 100W, will I be OK to measure 100W or would this exceed the test set input? Note my main use for the analyzer is testing / repairing / aligning HF SSB 100W & the odd 2m/70cm 20~50W FM gear. So super accuracy is not a key requirement.
>
> AND a huge thanks to group members - I was able to repair my 8924C PSU and am part way through replacing the CRT with a TFT display. Only possible with help from this group.
>
> Cheers & 73s
> Chris ZL1CVD.
>

# 482. Re: Display repair: was Modifying internal 3W attenuator (Assembly A4)

Yahoo group: hp8924
Date: 2011-12-13 20:24:55 UTC
From: jyelmgren
Topic: 478  Message: 482

I would much rather repair the internal monitor/CRT vs. trying to engineer a new display solution.

The LCD/TFT replacements that are fully engineered are pretty expensive relative to the current value of the 8924c. Have not seen one for the 8924C yet either ( and doubt we will ).

The CRT's still seem to be available and the external adapter to VGA would be very effective for a bench solution. 8924c is too heavy for practical field use anyway.

Most of the time the biggest issue is the burn in on the CRT's but even with one badly burned in they are still very usable.

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Hi Terry,
> Don't know of a direct replacement module for the 89XX. However if you search the list you will find info on using a video standards converter designed for video games to drive an external VGA display from the 8924C's video port. As an option you might be able to fit a mini (7" possibly) VGA monitor in place of the CRT module.
>
> HTH,
> Robert G8RPI.
>
>
>
> _____
> From: kb9jzy <kb9jzy@...>
> To: hp8924@...m
> Sent: Tuesday, 13 December 2011, 16:58
> Subject: [hp8924] Re: Modifying internal 3W attenuator (Assembly A4)
>
>
> Â
> Hi Chris,
>
> I'm expecting Santa to deliver a 8924C this Christmas.
> One of her "elves" was asking about display repair. So, I guess
> that means I'll have a bit of work to do.
> I would PREFER to do a TFT conversion, rather than simply replacing the CRT. Which are getting harder to find and since have been in
> some sort of storage, my guess is, like transmitting tubes, do develop leaks and other problems due to long term storage.
>
> Where can I find the information and parts required to do this?
> Any help, thoughts and ideas would be greatly appreciated.

>
> Terry K9HA
> OLD CALL KB9JZY
>
> --- In hp8924@yahoogroups.com, "c_day_nz" <c_day@> wrote:
> >
> > I have a standard 8924C which handles 3W max. I want to replace the flange attenuator inside unit A4 with a 20dB 100W H100NA20X4 Anaren attenuator. Can anyone confirm if the original HP attenuator is indeed 4dB? With the new attenuator fitted, do I just update the appropriate configuration screen with a 16dB offset? Also, given the new attenuator will handle 100W, will I be OK to measure 100W or would this exceed the test set input? Note my main use for the analyzer is testing / repairing / aligning HF SSB 100W & the odd 2m/70cm 20~50W FM gear. So super accuracy is not a key requirement.
> >
> > AND a huge thanks to group members - I was able to repair my 8924C PSU and am part way through replacing the CRT with a TFT display. Only possible with help from this group.
> >
> > Cheers & 73s
> > Chris ZL1CVD.
> >
>

# 483. Re: [hp8924] Re: Display repair: was Modifying internal 3W attenuator (Assembly A4)

Yahoo group: hp8924
Date: 2011-12-13 22:31:06 UTC
From: Tim Ahrens
Topic: 478  Message: 483

You might drop Rick at Amtronix a note if you need a new tube. I believe he routinely
replaces the tubes in the 8924c monitors. He may also have other parts if that's an issue.

I was looking at plugging in something to the back 'video out' connector, but it uses
a 19.2kHz sync rate (multi-sync), so my 'old' composite video monitors don't work.

I had a little 7" TFT LCD from one of those 'back of seat' type of DVD players, but
it's NTSC composite, so it didn't work either.

Yep, my tube also has some burn marks on it, but does it really matter, other than an asthetic
issue? Nah, probably not - I can still read it!

Good luck!!

Tim

On Tue, Dec 13, 2011 at 2:24 PM, jyelmgren <jyelmgren@...> wrote:

> I would much rather repair the internal monitor/CRT vs. trying to engineer
> a new display solution.
>
>
> The LCD/TFT replacements that are fully engineered are pretty expensive
> relative to the current value of the 8924c. Have not seen one for the 8924C
> yet either ( and doubt we will ).
>
> The CRT's still seem to be available and the external adapter to VGA would
> be very effective for a bench solution. 8924c is too heavy for practical
> field use anyway.
>
> Most of the time the biggest issue is the burn in on the CRT's but even
> with one badly burned in they are still very usable.
>
>
>
> --- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
> >
> > Hi Terry,
> > Don't know of a direct replacement module for the 89XX. However if you

> search the list you will find info on using a video standards converter
> designed for video games to drive an external VGA display from the 8924C's
> video port. As an option you might be able to fit a mini (7" possibly) VGA
> monitor in place of the CRT module.
> >
> > HTH,
> > Robert G8RPI.
> >
> >
> >
> > _____
> > From: kb9jzy <kb9jzy@...>
> > To: hp8924@yahoogroups.com
> > Sent: Tuesday, 13 December 2011, 16:58
> > Subject: [hp8924] Re: Modifying internal 3W attenuator (Assembly A4)
> >
> >
> > Â
> > Hi Chris,
> >
> > I'm expecting Santa to deliver a 8924C this Christmas.
> > One of her "elves" was asking about display repair. So, I guess
> > that means I'll have a bit of work to do.
> > I would PREFER to do a TFT conversion, rather than simply replacing the
> CRT. Which are getting harder to find and since have been in
> > some sort of storage, my guess is, like transmitting tubes, do develop
> leaks and other problems due to long term storage.
> >
> > Where can I find the information and parts required to do this?
> > Any help, thoughts and ideas would be greatly appreciated.
> >
> > Terry K9HA
> > OLD CALL KB9JZY
> >
> > --- In hp8924@yahoogroups.com, "c_day_nz" <c_day@> wrote:
> > >
> > > I have a standard 8924C which handles 3W max. I want to replace the
> flange attenuator inside unit A4 with a 20dB 100W H100NA20X4 Anaren
> attenuator. Can anyone confirm if the original HP attenuator is indeed 4dB?
> With the new attenuator fitted, do I just update the appropriate
> configuration screen with a 16dB offset? Also, given the new attenuator
> will handle 100W, will I be OK to measure 100W or would this exceed the
> test set input? Note my main use for the analyzer is testing / repairing /
> aligning HF SSB 100W & the odd 2m/70cm 20~50W FM gear. So super accuracy is
> not a key requirement.
> > >
> > > AND a huge thanks to group members - I was able to repair my 8924C PSU
> and am part way through replacing the CRT with a TFT display. Only possible
> with help from this group.
> > >

> > > Cheers & 73s
> > > Chris ZL1CVD.
> > >
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> Yahoo! Groups Links
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# 484. Re: [hp8924] Re: Modifying internal 3W attenuator (Assembly A4)

Yahoo group: hp8924
Date: 2011-12-13 22:40:57 UTC
From: Mike Newman
Topic: 478  Message: 484

Hi all
Santa came 11 days early here, but judging from the size of the 30 kg package, one of his elves now has a hernia. These hp8924c's are not light.

73 de miken, zl1bnb

On 14/12/11 05:58, kb9jzy wrote:Hi Chris,
>
>
> I'm expecting Santa to deliver a 8924C this Christmas.
> One of her "elves" was asking about display repair. So, I guess
> that means I'll have a bit of work to do.
> I would PREFER to do a TFT conversion, rather than simply replacing
> the CRT. Which are getting harder to find and since have been in
> some sort of storage, my guess is, like transmitting tubes, do develop
> leaks and other problems due to long term storage.
>
> Where can I find the information and parts required to do this?
> Any help, thoughts and ideas would be greatly appreciated.
>
> Terry K9HA
> OLD CALL KB9JZY
>
> --- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>,
> "c_day_nz" <c_day@...> wrote:
> >
> > I have a standard 8924C which handles 3W max. I want to replace the
> flange attenuator inside unit A4 with a 20dB 100W H100NA20X4 Anaren
> attenuator. Can anyone confirm if the original HP attenuator is indeed
> 4dB? With the new attenuator fitted, do I just update the appropriate
> configuration screen with a 16dB offset? Also, given the new
> attenuator will handle 100W, will I be OK to measure 100W or would
> this exceed the test set input? Note my main use for the analyzer is
> testing / repairing / aligning HF SSB 100W & the odd 2m/70cm 20~50W FM
> gear. So super accuracy is not a key requirement.
> >
> > AND a huge thanks to group members - I was able to repair my 8924C
> PSU and am part way through replacing the CRT with a TFT display. Only
> possible with help from this group.
> >
> > Cheers & 73s
> > Chris ZL1CVD.
> >
>
>

# 485. Re: [hp8924] Re: Modifying internal 3W attenuator (Assembly A4)

Yahoo group: hp8924
Date: 2011-12-13 22:53:02 UTC
From: Tim Ahrens
Topic: 478  Message: 485

If you shake it, do you think you can figure out what it is? :-)

On Tue, Dec 13, 2011 at 4:40 PM, Mike Newman <mnewman@...> wrote:

> **
>
>
> Hi all
> Santa came 11 days early here, but judging from the size of the 30 kg
> package, one of his elves now has a hernia. These hp8924c's are not light.
>
> 73 de miken, zl1bnb
>
> On 14/12/11 05:58, kb9jzy wrote:Hi Chris,
>
>
> I'm expecting Santa to deliver a 8924C this Christmas.
> One of her "elves" was asking about display repair. So, I guess
> that means I'll have a bit of work to do.
> I would PREFER to do a TFT conversion, rather than simply replacing the
> CRT. Which are getting harder to find and since have been in
> some sort of storage, my guess is, like transmitting tubes, do develop
> leaks and other problems due to long term storage.
>
> Where can I find the information and parts required to do this?
> Any help, thoughts and ideas would be greatly appreciated.
>
> Terry K9HA
> OLD CALL KB9JZY
>
> --- In hp8924@yahoogroups.com, "c_day_nz" <c_day@...> <c_day@...> wrote:
> >
> > I have a standard 8924C which handles 3W max. I want to replace the
> flange attenuator inside unit A4 with a 20dB 100W H100NA20X4 Anaren
> attenuator. Can anyone confirm if the original HP attenuator is indeed 4dB?
> With the new attenuator fitted, do I just update the appropriate
> configuration screen with a 16dB offset? Also, given the new attenuator
> will handle 100W, will I be OK to measure 100W or would this exceed the
> test set input? Note my main use for the analyzer is testing / repairing /
> aligning HF SSB 100W & the odd 2m/70cm 20~50W FM gear. So super accuracy is
> not a key requirement.
> >
> > AND a huge thanks to group members - I was able to repair my 8924C PSU
> and am part way through replacing the CRT with a TFT display. Only possible
> with help from this group.

> >
> > Cheers & 73s
> > Chris ZL1CVD.
> >
>
>
>
>
>

# 486. Using A TFT Monitor

Yahoo group: hp8924
Date: 2011-12-14 03:13:50 UTC
From: willcoele@ameritech.net
Topic: 486  Message: 486

I posted pictures in the Photo section of several modifications I did on the GBS-8200. I also added a few files in the files section. As soon as time permits, I'll generate a document showing in full detail the modifications and circuits needed to connect the GBS-8200.

The board is small enough to fit inside a gutted CRT frame but finding a TFT display and the hardware to position the display will be a challenge. The GBS-8200 will work with the 19.2 composite and I'm sure it's available on the original CRT connector. There are probably correct voltages that are also available to power the board and the TFT display.

The only drawback I can see is that the only control for brightness and contrast, will be on the GBS-8200. If you have a need to control the parameters, some how you will have to bring the buttons out to the 8924 front panel.

# 487. Re: Modifying internal 3W attenuator (Assembly A4)

Yahoo group: hp8924
Date: 2011-12-14 06:23:15 UTC
From: c_day_nz
Topic: 478  Message: 487

Hi Tim.
Yes, I thought it was 4dB but can't test it at present as my 8924 is in allot of bits. I sort of figured out the answers to a couple of my questions. 3W less 4dB gives 1.19W out. Therefore 100W in less 20dB gives 1W out which is under the 1.19W for the original attenuator. I did the mod last night, took a few photos and posted a pdf in the files section. Its pretty rough but should work for what I want. When I get it all up and running again I'll update the file with shots of the altered config screens that cater for the additional attenuation.

I did look at the eBay 100W & 60W upgrades that come with the cal data. But really can't justify the sort of $$ being asked. More so in that I think this 8924 has a few other faults that need sorting.

Cheers, Chris.

--- In hp8924@yahoogroups.com, Tim Ahrens <tahrens@...> wrote:
>
> Hi Chris,
>
> According to the manuals, it appears to be 4dB. Of course, you could
> always undo the two SMA connectors,
> and use the 8924 to verify that!
>
> On the TFT display, are you pulling the composite video from the back
> panel? Sounds like a pretty nice
> addition.
>
> Just upgraded to a 100w attenuator (replacement for the 3W), and it was an
> easy modification. I went
> to the trouble of pulling the front panel out, etc, but in the end, I think
> I could have done it all by just pulling
> off the top covers.
>
> Tim

# 488. Re: Using A TFT Monitor

Yahoo group: hp8924
Date: 2011-12-14 07:18:09 UTC
From: c_day_nz
Topic: 486  Message: 488

A couple of nights ago I lashed up the input of a GB8220 to the motherboard CRT connector J96. Got it to display OK until the 8924 had a hernia because I didn't have the A5 input module attached.

So now that I know I can use the signals from J96 to run the GB8220 OK I have ordered a 7.0" TFT + VGA driver board from eBay.

I will completely remove the CRT and use that space to mount the TFT VGA driver board & GB8220 converter board. As the TFT panel is only 5mm thick, I'll mount this on the front panel in the space occupied (165x120mm) by the original CRT display bezel (HP refers to it as MP41 - it unclips from the front panel).

The 7.0" TFT panel is 165x100mm so I'll have a narrow 165x20mm strip to mount control buttons (brightness, contrast, etc).

The only problem I foresee is supplying enough current to the GP8220, TFT driver board & TFT panel from the motherboard CRT connector (J96, pin 5, 12V). The CRT is internally fused at 2A but I'm not sure of its running current. I have read some eBay sellers recommending 4A @ 5V for the GB8220 alone. A quick test I did showed 400~500mA so maybe they are just trying to sell 4A 5v PSUs? I'd like to use the 12V on J96 but may have to resort to another option.

All this will have to wait until after the festive season now as were heading away for a nice family break.

Cheers, Chris.

# 489. Re: [hp8924] Re: Using A TFT Monitor

Yahoo group: hp8924
Date: 2011-12-14 07:31:35 UTC
From: Robert Atkinson
Topic: 486  Message: 489

Hi,
You should check your GBS8220 to see exactly what the power supply arrangement is. Mine had an onboard regulator that ran nicely from 7-9V unregulated dispite the "spec" saying 5V. If you do need 5V, consider using a switchmode regulator (National Semi "Simple Switcher" or similar) to drop from the 12V line. this will  approx. halve the average current on the 12V input compared to a linear regulator.
What sync separator did you use, a LM1881? Did you use just the green video input for a green display or all three for white?

Regards,
Robert G8RPI.

---
From: c_day_nz <c_day@...>
To: hp8924@yahoogroups.com
Sent: Wednesday, 14 December 2011, 7:18
Subject: [hp8924] Re: Using A TFT Monitor

A couple of nights ago I lashed up the input of a GB8220 to the motherboard CRT connector J96. Got it to display OK until the 8924 had a hernia because I didn't have the A5 input module attached.

So now that I know I can use the signals from J96 to run the GB8220 OK I have ordered a 7.0" TFT + VGA driver board from eBay.

I will completely remove the CRT and use that space to mount the TFT VGA driver board & GB8220 converter board. As the TFT panel is only 5mm thick, I'll mount this on the front panel in the space occupied (165x120mm) by the original CRT display bezel (HP refers to it as MP41 - it unclips from the front panel).

The 7.0" TFT panel is 165x100mm so I'll have a narrow 165x20mm strip to mount control buttons (brightness, contrast, etc).

The only problem I foresee is supplying enough current to the GP8220, TFT driver board & TFT panel from the motherboard CRT connector (J96, pin 5, 12V). The CRT is internally fused at 2A but I'm not sure of its running current. I have read some eBay sellers recommending 4A @ 5V for the GB8220 alone. A quick test I did showed 400~500mA so maybe they are just trying to sell 4A 5v PSUs? I'd like to use the 12V on J96 but may have to resort to another option.

All this will have to wait until after the festive season now as were heading away for a nice family break.

Cheers, Chris.

# 490. Re: Display repair: was Modifying internal 3W attenuator (Assembly A4)

Yahoo group: hp8924
Date: 2011-12-14 07:47:40 UTC
From: c_day_nz
Topic: 478  Message: 490

Yes, the CRTs are available but for those not in the US, they are quite expensive to ship. A 7" TFT can be made to work and will give a slightly larger viewable area (great for old eyes). For those of us who have limited bench space, a 7" TFT stuck to the front panel of an already large bit of kit may just be the solution. I'm not sure the modified result will ever look as good though

```
--- In hp8924@yahoogroups.com, "jyelmgren" <jyelmgren@...> wrote:
>
> I would much rather repair the internal monitor/CRT vs. trying to engineer a new display
solution.
>
>
> The LCD/TFT replacements that are fully engineered are pretty expensive relative to the
current value of the 8924c. Have not seen one for the 8924C yet either ( and doubt we will
).
>
> The CRT's still seem to be available and the external adapter to VGA would be very
effective for a bench solution. 8924c is too heavy for practical field use anyway.
>
> Most of the time the biggest issue is the burn in on the CRT's but even with one badly
burned in they are still very usable.
>
```

# 491. Re: Using A TFT Monitor

Yahoo group: hp8924
Date: 2011-12-14 07:59:36 UTC
From: c_day_nz
Topic: 486  Message: 491

Hi Robert. It was a very quick lash-up with a 0.1uf ceramic cap. No mods to the GB8220 yet and I'm guessing this was why the video faded out just before the 8924 had a hissy fit (not display related ☐ A5 not connected). My GB8220 uses a BM1084 3.3V 5A regulator. Its not really a question of how to drop the voltage, more of how much current can I safely pull from J96 pin 5 before I blow a track. Also, my 8924 had a crook PSU (leaky startup cap as per list). I just replaced the one cap and haven't bothered testing all the others. Some of the frequency readings indicate the reference is drifting. So I probably need to go back to the PSU and give it a good working over. Even so, if I'm adding another 30~40W drain on the PSU, will it handle it over a period of time. I'll get stuck into all this in the new year and update the list as I progress. Cheers, Chris.

```
--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Hi,
> You should check your GBS8220 to see exactly what the power supply arrangement is. Mine
had an onboard regulator that ran nicely from 7-9V unregulated dispite the "spec" saying
5V. If you do need 5V, consider using a switchmode regulator (National Semi "Simple
Switcher" or similar) to drop from the 12V line. this willÂ  approx. halve the average
current on the 12V input compared to a linear regulator.
> What sync separator did you use, aÂ LM1881? Did you use just the green video input for a
green display or all three for white?
> Â
> Regards,
> Robert G8RPI.
```

# 492. Lcd display conversion

Yahoo group: hp8924
Date: 2011-12-14 14:19:30 UTC
From: kb9jzy
Topic: 492  Message: 492

Greetings All,
Is there a LCD conversion available?
There is for some HP products.
Has anyone done this?
What is involved?

Appreciate the help,

Terry

# 493. Re: Display repair: was Modifying internal 3W attenuator (Assembly A4)

Yahoo group: hp8924
Date: 2011-12-14 15:22:01 UTC
From: jyelmgren
Topic: 478  Message: 493

looks like a good supply still available to the US ..roughly $200.00 wiht a quick search on Ebay. In the same price range as the parts to build an LCD display.
Lots of customization would be required with LCD around the mechanics and installation so a lot more effort than replacing the tube in my opinion.

So if you want a cool project the LCD may be fun but if you just want a functional piece of test equipment the CRT would be easier.

--- In hp8924@yahoogroups.com, "c_day_nz" <c_day@...> wrote:
>
> Yes, the CRTs are available but for those not in the US, they are quite expensive to ship. A 7" TFT can be made to work and will give a slightly larger viewable area (great for old eyes). For those of us who have limited bench space, a 7" TFT stuck to the front panel of an already large bit of kit may just be the solution. I'm not sure the modified result will ever look as good though
>
> --- In hp8924@yahoogroups.com, "jyelmgren" <jyelmgren@> wrote:
> >
> > I would much rather repair the internal monitor/CRT vs. trying to engineer a new display solution.
> >
> >
> > The LCD/TFT replacements that are fully engineered are pretty expensive relative to the current value of the 8924c. Have not seen one for the 8924C yet either ( and doubt we will ).
> >
> > The CRT's still seem to be available and the external adapter to VGA would be very effective for a bench solution. 8924c is too heavy for practical field use anyway.
> >
> > Most of the time the biggest issue is the burn in on the CRT's but even with one badly burned in they are still very usable.
> >
>

# 494. Re: Modifying internal 3W attenuator (Assembly A4)

Yahoo group: hp8924
Date: 2011-12-14 22:00:37 UTC
From: Bill Black
Topic: 478  Message: 494

Hi All

This group is at risk of going 'down under' with so many posts coming from NZ, so here is another one to help the cause ;-)

When installing a 100 watt upgrade I only had a 60 watt cal data card. Ric at Amtronix was most helpful explaining details of what to look for in the cal data file set.

So I was able to change the attenuation value in the cal data and now have an approximately calibrated 100 watt 8924.

What was needed is a cal data card and an HP100LX to edit the card data. The 100LX is an old HP handheld computer I had buried away that turned out to be compatible with the files used on the cal data cards.

From memory the original 3 watt attenuator is 6 dB, 60 watt is 14 dB.

I have a GN8200 card on the way so am interested to follow the comments on these and replacing the CRT with a TFT. Best guess is the CRT assembly draws at least 15 watts so using a switchmode regulator from 12 to 5 volts will allow nearly 3 amps without changing the main psu load.

Bill

# 495. Re: Modifying internal 3W attenuator (Assembly A4)

Yahoo group: hp8924
Date: 2011-12-15 00:47:20 UTC
From: Mike
Topic: 478  Message: 495

Hi Bill
How well does the internal structure of a HP8924c deal with heat dissipation of up to 100 watts in such an upgrade?
tks miken

--- In hp8924@yahoogroups.com, "Bill Black" <black@...> wrote:
>
> Hi All
>
> This group is at risk of going 'down under' with so many posts coming from NZ, so here is another one to help the cause ;-)
>
> When installing a 100 watt upgrade I only had a 60 watt cal data card. Ric at Amtronix was most helpful explaining details of what to look for in the cal data file set.
>
> So I was able to change the attenuation value in the cal data and now have an approximately calibrated 100 watt 8924.
>
> What was needed is a cal data card and an HP100LX to edit the card data. The 100LX is an old HP handheld computer I had buried away that turned out to be compatible with the files used on the cal data cards.
>
> From memory the original 3 watt attenuator is 6 dB, 60 watt is 14 dB.
>
> I have a GN8200 card on the way so am interested to follow the comments on these and replacing the CRT with a TFT. Best guess is the CRT assembly draws at least 15 watts so using a switchmode regulator from 12 to 5 volts will allow nearly 3 amps without changing the main psu load.
>
>
> Bill
>

# 496. Re: Modifying internal 3W attenuator (Assembly A4)

Yahoo group: hp8924
Date: 2011-12-15 17:04:04 UTC
From: Joe Leikhim
Topic: 478  Message: 496

I have a couple HP200LX and will be happy to copy an upgrade card and modify settings for the group if I can get a sample upgrade card.

--
Joe Leikhim

Leikhim and Associates
Communications Consultants
Oviedo, Florida

www.Leikhim.com

JLeikhim@...

407-982-0446

Note to GMail Account users. Due to an abnormally high volume of spam originating from bogus GMail accounts, I have found it necessary to block certain GMail traffic. Please phone me if you believe your message was not received.

# 497. Re: Modifying internal 3W attenuator (Assembly A4)

Yahoo group: hp8924
Date: 2011-12-15 19:50:57 UTC
From: sandhillbill_b
Topic: 478  Message: 497

Hi Miken

The attenuator is attached to a heatsink that is in the main cooling airflow from the fan.

There is some de-rating information showing how long and what power levels are supported but I don't recall the detail. It is along the lines of 100 watts for 30 seconds, 60 watts continuous.

The 8924 warns the operator if too much power is applied or the time at a power level is exceeded.

As mentioned in other posts there is a menu setting for offset if you are using an external attenuator or power sampler so the measurements indicated are for the radio side of the sampler or attenuator.

So with the right setup you can use the 8924 on high power transmitters. I think 100 watts is the highest you can go with an internal solution though.

Bill

--- In hp8924@yahoogroups.com, "Mike" <mnewman@...> wrote:
>
>
> Hi Bill
> How well does the internal structure of a HP8924c deal with heat dissipation of up to 100 watts in such an upgrade?
> tks miken
>
>
> --- In hp8924@yahoogroups.com, "Bill Black" <black@> wrote:
> >
> > Hi All
> >
> > This group is at risk of going 'down under' with so many posts coming from NZ, so here is another one to help the cause ;-)
> >
> > When installing a 100 watt upgrade I only had a 60 watt cal data card. Ric at Amtronix was most helpful explaining details of what to look for in the cal data file set.
> >
> > So I was able to change the attenuation value in the cal data and now have an approximately calibrated 100 watt 8924.
> >
> > What was needed is a cal data card and an HP100LX to edit the card data. The 100LX is an old HP handheld computer I had buried away that turned out to be compatible with the files used on the cal data cards.
> >
> > From memory the original 3 watt attenuator is 6 dB, 60 watt is 14 dB.

> >
> > I have a GN8200 card on the way so am interested to follow the comments on these and replacing the CRT with a TFT. Best guess is the CRT assembly draws at least 15 watts so using a switchmode regulator from 12 to 5 volts will allow nearly 3 amps without changing the main psu load.
> >
> >
> > Bill
> >
>

# 498. OT: HP E8285A recevier checkout video

Yahoo group: hp8924
Date: 2011-12-16 23:09:07 UTC
From: Brian Swann
Topic: 478  Message: 498

A couple of people asked me to follow up my duplexer tuning videos with some more basic material. Here is a VHF receiver checkout using the HP E8285A test set. This equipment is very similar to the 8924C and 6380A, at least the general principles apply.

Transmit checkout video coming soon. I bet y'all can't wait :)

Brian

n1bs

HP E8285A Receiver checkout demo

# 499. Re: Modifying internal 3W attenuator (Assembly A4)

Yahoo group: hp8924
Date: 2011-12-19 03:23:33 UTC
From: willcoele@ameritech.net
Topic: 478  Message: 499

Do you know if the 100LX or 200LX can read the 8924, PCMCIA RAM cards?
I have my setups backed up and I need a way to read the cards. My HP Thinkpad has a PCMCIA slot but it won't read the card.

--- In hp8924@...m, "Bill Black" <black@...> wrote:
>
> Hi All
>
> This group is at risk of going 'down under' with so many posts coming from NZ, so here is another one to help the cause ;-)
>
> When installing a 100 watt upgrade I only had a 60 watt cal data card. Ric at Amtronix was most helpful explaining details of what to look for in the cal data file set.
>
> So I was able to change the attenuation value in the cal data and now have an approximately calibrated 100 watt 8924.
>
> What was needed is a cal data card and an HP100LX to edit the card data. The 100LX is an old HP handheld computer I had buried away that turned out to be compatible with the files used on the cal data cards.
>
> From memory the original 3 watt attenuator is 6 dB, 60 watt is 14 dB.
>
> I have a GN8200 card on the way so am interested to follow the comments on these and replacing the CRT with a TFT. Best guess is the CRT assembly draws at least 15 watts so using a switchmode regulator from 12 to 5 volts will allow nearly 3 amps without changing the main psu load.
>
>
> Bill
>

# 500. Re: Modifying internal 3W attenuator (Assembly A4)

Yahoo group: hp8924
Date: 2011-12-20 06:04:51 UTC
From: sandhillbill_b
Topic: 478  Message: 500

I can only vouch for the 100LX being able to read and write to a RAM card OK.

For installing the 100 Watt upgrade I got the cal files sent by email then transferred them to the cal card I had for a 60 Watt upgrade using my 100LX. The file with the cal information appears to be ASCII and can be easily edited with the 100LX to change the main attenuation value.

My guess is that it would be possible to identify and edit the rest of the data if you knew the individual attenuator characteristics.

There might be enough information around on the 100LX to work out what file system it uses and hence what the 8924 uses. I seem to recall DOS compatibility with the 100LX as they are similar vintage.

Bill

--- In hp8924@yahoogroups.com, "willcoele@..." <willcoele@...> wrote:
>
> Do you know if the 100LX or 200LX can read the 8924, PCMCIA RAM cards?
> I have my setups backed up and I need a way to read the cards. My HP Thinkpad has a PCMCIA slot but it won't read the card.
>

# 501. OT: HP E8285A transmitter checkout video

Yahoo group: hp8924
Date: 2011-12-20 17:48:13 UTC
From: Brian Swann
Topic: 478  Message: 501

The companion video to my earlier receiver checkout. This covers the transmit portion of the ICOM IC2100H transceiver using the HP E8285A test set.

http://youtu.be/R8BLh0axTfA

My Youtube channel:

n1bsbri's Channel

--

Regards,
Brian

# 502. Re: internal attenuator Calibration info and external drives

Yahoo group: hp8924
Date: 2011-12-21 22:30:30 UTC
From: robert8rpi
Topic: 478 Message: 502

Hi Bill,
Any chance of posting the calibration data files and other information? One possible option for tranfering files is to use an external HP-IB disk drive. There are instructions on the 8924C for copying files from the PMCIA card to an external drive. Of course these external drives are not common, but I found this website http://www.hp9845.net/9845/projects/hpdrive/index.html which has an emulation program that runs on a PC. I've not tried it yet. There is also http://www.hp9845.net/9845/projects/hpdir/

Robert G8RPI.

--- In hp8924@yahoogroups.com, "sandhillbill_b" <black@...> wrote:
>
> I can only vouch for the 100LX being able to read and write to a RAM card OK.
>
> For installing the 100 Watt upgrade I got the cal files sent by email then transferred them to the cal card I had for a 60 Watt upgrade using my 100LX. The file with the cal information appears to be ASCII and can be easily edited with the 100LX to change the main attenuation value.
>
> My guess is that it would be possible to identify and edit the rest of the data if you knew the individual attenuator characteristics.
>
> There might be enough information around on the 100LX to work out what file system it uses and hence what the 8924 uses. I seem to recall DOS compatibility with the 100LX as they are similar vintage.
>
>
> Bill
>
> --- In hp8924@yahoogroups.com, "willcoele@" <willcoele@> wrote:
> >
> > Do you know if the 100LX or 200LX can read the 8924, PCMCIA RAM cards?
> > I have my setups backed up and I need a way to read the cards. My HP Thinkpad has a PCMCIA slot but it won't read the card.
> >
>

# 503. Re: [hp8924] Re: internal attenuator Calibration info and external drives

Yahoo group: hp8924
Date: 2011-12-21 23:57:39 UTC
From: Ralph Mowery
Topic: 478  Message: 503

Along the same line, has anyone tried to replace the old PCMCIA card with an adaptor that allows you to use a more modern storage system. Such as a compact flash card.
Such as this ebay item.
320812394613

It may be possiable to transfer the files to the compact flash memory chip and then put it into the adapter for the 8924.

--- On Wed, 12/21/11, robert8rpi <robert8rpi@...> wrote:

From: robert8rpi <robert8rpi@...>
Subject: [hp8924] Re: internal attenuator Calibration info and external drives
To: hp8924@yahoogroups.com
Date: Wednesday, December 21, 2011, 5:30 PM

Hi Bill,
Any chance of posting the calibration data files and other information? One possible option for tranfering files is to use an external HP-IB disk drive. There are instructions on the 8924C for copying files from the PMCIA card to an external drive. Of course these external drives are not common, but I found this website
http://www.hp9845.net/9845/projects/hpdrive/index.html which has an emulation program that runs on a PC. I've not tried it yet. There is also
http://www.hp9845.net/9845/projects/hpdir/

Robert G8RPI.

# 504. Re: internal attenuator Calibration info and external drives

Yahoo group: hp8924
Date: 2011-12-22 09:27:24 UTC
From: robert8rpi
Topic: 478  Message: 504

Hi,
The 8924C won't format or write to a flash card even a PCMCIA one. This is because Flash is a "Device" card not a "Memory" card. Flash requires block writes and cannot handle bytes. It might read a flash card if you could write an image copy of a SRAM card. I've not tried this though.

Robert G8RPI.

--- In hp8924@yahoogroups.com, Ralph Mowery <ku4pt@...> wrote:
>
> Along the same line, has anyone tried to replace the old PCMCIA card with an adaptor that allows you to use a more modern storage system. Such as a compact flash card.
> Such as this ebay item.
> 320812394613
>
> It may be possiable to transfer the files to the compact flash memory chip and then put it into the adapter for the 8924.
>
>
>
>
> --- On Wed, 12/21/11, robert8rpi <robert8rpi@...> wrote:
>
>
> From: robert8rpi <robert8rpi@...>
> Subject: [hp8924] Re: internal attenuator Calibration info and external drives
> To: hp8924@yahoogroups.com
> Date: Wednesday, December 21, 2011, 5:30 PM
>
>
> Hi Bill,
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>
> Robert G8RPI.
>

# 505. Re: internal attenuator Calibration info and external drives

Yahoo group: hp8924
Date: 2011-12-22 20:07:17 UTC
From: sandhillbill_b
Topic: 478  Message: 505

Hi Robert

Files posted in a new directory in the files section.

I only got so far into what can be done. Was lucky to have the HP100LX that could work with the cal card but understand the 8924 will work with ms dos files as well as HP's own LIF format.

The calcard I used was borrowed so I no longer have the ability to experiment further.

Are you aware of this software http://www.measurement.net.au/c/25306/1/rf-tools-software.html And they have a GPIB to USB converter.

Keep us posted on what you are able to do.

Seasons greetings to all

Bill

--- In hp8924@yahoogroups.com, "robert8rpi" <robert8rpi@...> wrote:
>
> Hi Bill,
> Any chance of posting the calibration data files and other information? One possible option for tranfering files is to use an external HP-IB disk drive. There are instructions on the 8924C for copying files from the PMCIA card to an external drive. Of course these external drives are not common, but I found this website http://www.hp9845.net/9845/projects/hpdrive/index.html which has an emulation program that runs on a PC. I've not tried it yet. There is also http://www.hp9845.net/9845/projects/hpdir/
>
> Robert G8RPI.
>
> --- In hp8924@yahoogroups.com, "sandhillbill_b" <black@> wrote:
> >
> > I can only vouch for the 100LX being able to read and write to a RAM card OK.
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> > For installing the 100 Watt upgrade I got the cal files sent by email then transferred them to the cal card I had for a 60 Watt upgrade using my 100LX. The file with the cal information appears to be ASCII and can be easily edited with the 100LX to change the main attenuation value.
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> > There might be enough information around on the 100LX to work out what file system it uses and hence what the 8924 uses. I seem to recall DOS compatibility with the 100LX as

they are similar vintage.
> >
> >
> > Bill
> >
> > --- In hp8924@yahoogroups.com, "willcoele@" <willcoele@> wrote:
> > >
> > > Do you know if the 100LX or 200LX can read the 8924, PCMCIA RAM cards?
> > > I have my setups backed up and I need a way to read the cards. My HP Thinkpad has a PCMCIA slot but it won't read the card.
> > >
> >
>

# 506. Re: internal attenuator Calibration info and external drives

Yahoo group: hp8924
Date: 2011-12-23 12:32:43 UTC
From: robert8rpi
Topic: 478 Message: 506

Hi Bill,
Thanks for that it's very useful. I've had a quick play with a SRAM card and a CF card in a PCMCIA adaptor. I put ELAN's Memory Card Explorer (MCE, trial version) on an old windows laptop. It will copy a binary image to the CF card, with warnings that it is a "device" not a memory card. However the 8924C does not recognise the card. Now CF does have a memory mode as well as the Device ATA mode. The Adaptor seems to force it to ATA mode. It may be possible to get or modify a CF to PCMCIA adaptor to force memory mode. I've not looked into this and the CF may be too slow anyway. So you need to use a SRAM card or possibly a EPROM or Linear FLASH. You need 512K for the 11807E opt 100 software.

Regards,
Robert G8RPI.

--- In hp8924@yahoogroups.com, "sandhillbill_b" <black@...> wrote:
>
> Hi Robert
>
> Files posted in a new directory in the files section.
>
> I only got so far into what can be done. Was lucky to have the HP100LX that could work with the cal card but understand the 8924 will work with ms dos files as well as HP's own LIF format.
>
> The calcard I used was borrowed so I no longer have the ability to experiment further.
>
> Are you aware of this software http://www.measurement.net.au/c/25306/1/rf-tools-software.html And they have a GPIB to USB converter.
>
> Keep us posted on what you are able to do.
>
> Seasons greetings to all
>
>
> Bill
>
>
> --- In hp8924@yahoogroups.com, "robert8rpi" <robert8rpi@> wrote:
> >
> > Hi Bill,
> > Any chance of posting the calibration data files and other information? One possible option for tranfering files is to use an external HP-IB disk drive. There are instructions on the 8924C for copying files from the PMCIA card to an external drive. Of course these external drives are not common, but I found this website http://www.hp9845.net/9845/projects/hpdrive/index.html which has an emulation program that

runs on a PC. I've not tried it yet. There is also
http://www.hp9845.net/9845/projects/hpdir/
> >
> > Robert G8RPI.
> >
> > --- In hp8924@yahoogroups.com, "sandhillbill_b" <black@> wrote:
> > >
> > > I can only vouch for the 100LX being able to read and write to a RAM card OK.
> > >
> > > For installing the 100 Watt upgrade I got the cal files sent by email then transferred them to the cal card I had for a 60 Watt upgrade using my 100LX. The file with the cal information appears to be ASCII and can be easily edited with the 100LX to change the main attenuation value.
> > >
> > > My guess is that it would be possible to identify and edit the rest of the data if you knew the individual attenuator characteristics.
> > >
> > > There might be enough information around on the 100LX to work out what file system it uses and hence what the 8924 uses. I seem to recall DOS compatibility with the 100LX as they are similar vintage.
> > >
> > >
> > > Bill
> > >
> > > --- In hp8924@yahoogroups.com, "willcoele@" <willcoele@> wrote:
> > > >
> > > > Do you know if the 100LX or 200LX can read the 8924, PCMCIA RAM cards?
> > > > I have my setups backed up and I need a way to read the cards. My HP Thinkpad has a PCMCIA slot but it won't read the card.
> > > >
> > >
> >
>

# 507. Re: internal attenuator Calibration info and external drives

Yahoo group: hp8924
Date: 2011-12-27 01:48:45 UTC
From: jyelmgren
Topic: 478  Message: 507

I actually ended up just using a laptop with a PCMCIA slot and Windows XP. had a couple of laptops kicking around that I had to have XP for anyway that still had a real serial ports ans a PCMCIA slot.

Just used WinImage to extract the files from the 11807 image to a formatted 1M SRAM card.

Looks like it worked great ...little slow though. Guess I'm used to faster processors.

Picked up the SRAM card on Ebay,( need a least 512MB ) WinImage is a free download.

There is SW out there for later OS versions but all that I found were fairly costly for a one time use.

The HP Palmtops work but downloading the files via RS232 is a pain.

John

--- In hp8924@yahoogroups.com, "robert8rpi" <robert8rpi@...> wrote:
>
> Hi Bill,
> Thanks for that it's very useful. I've had a quick play with a SRAM card and a CF card in a PCMCIA adaptor. I put ELAN's Memory Card Explorer (MCE, trial version) on an old windows laptop. It will copy a binary image to the CF card, with warnings that it is a "device" not a memory card. However the 8924C does not recognise the card. Now CF does have a memory mode as well as the Device ATA mode. The Adaptor seems to force it to ATA mode. It may be possible to get or modify a CF to PCMCIA adaptor to force memory mode. I've not looked into this and the CF may be too slow anyway. So you need to use a SRAM card or possibly a EPROM or Linear FLASH. You need 512K for the 11807E opt 100 software.
>
> Regards,
> Robert G8RPI.
>
> --- In hp8924@yahoogroups.com, "sandhillbill_b" <black@> wrote:
> >
> > Hi Robert
> >
> > Files posted in a new directory in the files section.
> >
> > I only got so far into what can be done. Was lucky to have the HP100LX that could work with the cal card but understand the 8924 will work with ms dos files as well as HP's own LIF format.
> >
> > The calcard I used was borrowed so I no longer have the ability to experiment further.
> >
> > Are you aware of this software
http://www.measurement.net.au/c/25306/1/rf-tools-software.html And they have a GPIB to USB converter.

> >
> > Keep us posted on what you are able to do.
> >
> > Seasons greetings to all
> >
> >
> > Bill
> >
> >
> > --- In hp8924@yahoogroups.com, "robert8rpi" <robert8rpi@> wrote:
> > >
> > > Hi Bill,
> > > Any chance of posting the calibration data files and other information? One possible option for tranfering files is to use an external HP-IB disk drive. There are instructions on the 8924C for copying files from the PMCIA card to an external drive. Of course these external drives are not common, but I found this website http://www.hp9845.net/9845/projects/hpdrive/index.html which has an emulation program that runs on a PC. I've not tried it yet. There is also http://www.hp9845.net/9845/projects/hpdir/
> > >
> > > Robert G8RPI.
> > >
> > > --- In hp8924@yahoogroups.com, "sandhillbill_b" <black@> wrote:
> > > >
> > > > I can only vouch for the 100LX being able to read and write to a RAM card OK.
> > > >
> > > > For installing the 100 Watt upgrade I got the cal files sent by email then transferred them to the cal card I had for a 60 Watt upgrade using my 100LX. The file with the cal information appears to be ASCII and can be easily edited with the 100LX to change the main attenuation value.
> > > >
> > > > My guess is that it would be possible to identify and edit the rest of the data if you knew the individual attenuator characteristics.
> > > >
> > > > There might be enough information around on the 100LX to work out what file system it uses and hence what the 8924 uses. I seem to recall DOS compatibility with the 100LX as they are similar vintage.
> > > >
> > > >
> > > > Bill
> > > >
> > > > --- In hp8924@yahoogroups.com, "willcoele@" <willcoele@> wrote:
> > > > >
> > > > > Do you know if the 100LX or 200LX can read the 8924, PCMCIA RAM cards?
> > > > > I have my setups backed up and I need a way to read the cards. My HP Thinkpad has a PCMCIA slot but it won't read the card.
> > > > >
> > > >
> > >
> >

>

# 508. External attenuators and power levels

Yahoo group: hp8924
Date: 2011-12-27 19:14:27 UTC
From: jistabout
Topic: 508  Message: 508

Hi everyone!

I plan to use my 8924C with an external 30db attenuator which I just bought. My 8924C is the 6w version. Does anybody know how much maximum power handling this will give? How to calculate this? Thanks and happy new year :).

- Darrell/KA7BTV

# 509. RE: [hp8924] External attenuators and power levels

Yahoo group: hp8924
Date: 2011-12-27 19:33:49 UTC
From: Brian Swann
Topic: 508  Message: 509

Darrell,

6W plus 30dB = 6000W, but I suspect your attenuator has a much lower power rating.

Quick conversions for power:

3 dB = twice (or 1/2) the power - example 3 dB more than 2W = 4W

10 dB = 10X (or .1X) power - example 10 dB more than 20W = 200W

Brian
n1bs

To: hp8924@yahoogroups.com
From: darrell@...
Date: Tue, 27 Dec 2011 19:14:27 +0000
Subject: [hp8924] External attenuators and power levels

Hi everyone!

I plan to use my 8924C with an external 30db attenuator which I just bought. My 8924C is the 6w version. Does anybody know how much maximum power handling this will give? How to calculate this? Thanks and happy new year :).

- Darrell/KA7BTV

# 510. Re: External attenuators and power levels

Yahoo group: hp8924
Date: 2011-12-27 20:27:47 UTC
From: robert8rpi
Topic: 508  Message: 510

Hi Darrel,
At 30dB it depends on the power rating of the attenuator you have bought (up to 6kW). if the attenuator is rated for 25W you can use up to 25W. Conversion is easy, The 8924C will read 1mW for 1W in so if the 8924C says 12.6mW the power into the attenuator is 12.6W.
What model attenuator did you buy? Do you have he specification for it?
If it's not large and finned it is unlikely to be able to handle more than a couple of watts.

Regards,
Robert G8RPI.

--- In hp8924@yahoogroups.com, "jistabout" <darrell@...> wrote:
>
> Hi everyone!
>
> I plan to use my 8924C with an external 30db attenuator which I just bought. My 8924C is the 6w version. Does anybody know how much maximum power handling this will give? How to calculate this? Thanks and happy new year :).
>
> - Darrell/KA7BTV
>

# 511. Re: External attenuators and power levels

Yahoo group: hp8924
Date: 2011-12-27 21:21:08 UTC
From: jistabout
Topic: 508  Message: 511

Thanks for good replies :). Robert, I bought a 50w Bird unit. I already had a similar 3db 40w unit which works well so I decided to gain more power handling.

Former service monitor was a Motorola R2014D so I'm somewhat new to the HP but I'm quite impressed. Had I known I would have bought one years ago :).

Anyway, thanks again. When the attenuator arrives I'll tell the 8924C about it and all should be well :).

- Darrell/KA7BTV

# 512. Re: [hp8924] Re: External attenuators and power levels

Yahoo group: hp8924
Date: 2011-12-28 00:20:52 UTC
From: Ralph Mowery
Topic: 508  Message: 512

If you have the 8924 or 8920 series, there is a fellow that sells an internal HP attenuator  rated for 60 watts continious and will take about 100 watts for 10 seconds for about $ 150.  He has it listed for about $ 200, but you will get a $ 50 refund if you mail him the calibration card back.  Takes about an hour to install it if you take your time.  Mostly about 50 screws to take out to get to it.  The picture on ebay is misleading.  All he sends for this is a item about the size of a postage stamp and thick as a nickle..  You take out two small screws and unsolder 2 wires, and replace the chip and solder the two wires back.  That takes abotu 2 minuits.  Very easy to get to once all the shielding is off.
He does send the replacement lable that states it is now a 60 watt unit and a calibration card.

For the DB rating of what you have, every time you add 10 db,you get 10 times the power multiplacation.  That is 10 db will make a 6 watt unit 60 watts, 20db to 600 and 30 db to 6000 watts.  So unless your external unit is rated for 6000 watts or more, what ever it is rated for will be your limit.

--- On Tue, 12/27/11, jistabout <darrell@...> wrote:

From: jistabout <darrell@...>
Subject: [hp8924] Re: External attenuators and power levels
To: hp8924@yahoogroups.com
Date: Tuesday, December 27, 2011, 4:21 PM

Thanks for good replies :). Robert, I bought a 50w Bird unit. I already had a similar 3db 40w unit which works well so I decided to gain more power handling.

Former service monitor was a Motorola R2014D so I'm somewhat new to the HP but I'm quite impressed. Had I known I would have bought one years ago :).

Anyway, thanks again. When the attenuator arrives I'll tell the 8924C about it and all should be well :).

- Darrell/KA7BTV

# 513. RE: [hp8924] Re: External attenuators and power levels

Yahoo group: hp8924
Date: 2011-12-28 02:09:27 UTC
From: Mike (WM4B)
Topic: 508  Message: 513

Ralph,

I ordered the attenuator upgrade off eBay today. How were the instructions?

73,

Mike
WM4B

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of
Ralph Mowery
Sent: Tuesday, December 27, 2011 7:21 PM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Re: External attenuators and power levels

If you have the 8924 or 8920 series, there is a fellow that sells an
internal HP attenuator  rated for 60 watts continuous and will take about
100 watts for 10 seconds for about $ 150.  He has it listed for about $ 200,
but you will get a $ 50 refund if you mail him the calibration card back.
Takes about an hour to install it if you take your time.  Mostly about 50
screws to take out to get to it.

–

# 514. RE: [hp8924] Re: External attenuators and power levels

Yahoo group: hp8924
Date: 2011-12-28 02:50:34 UTC
From: Ralph Mowery
Topic: 508  Message: 514

I do not think there were any instructions with it.

It is not difficult to install.  I did take some pix of the install of the attenuator.  If you would like to see them, let me know and also if you have a high speed connection or dialup.  I do not like to send large files to people with dialup without them knowing about it.

After you get the case off and the top shield, look near the CRT section and you will see a small box ( about 1 inch by 1 1/2 inches) with some small hardline going to it.  Looks to be like about 1/8 of an inch.  Forgot what it is called rg wise.

Do not do like I did and drop one of the screws inside the 8924 and had to go fishing for it..

YOu install the attenuator and then turn the set on and put the card in the slot and do a simple upgrade.  I have forgotten the exect steps.  That just tells the 8924 you now have a 60 watt unit and adjust the internal calculations for it.  The data stays in the 8924 and you can then send the card back.

--- On Tue, 12/27/11, Mike (WM4B) <mwbesemer@...> wrote:

From: Mike (WM4B) <mwbesemer@...>
Subject: RE: [hp8924] Re: External attenuators and power levels
To: hp8924@yahoogroups.com
Date: Tuesday, December 27, 2011, 9:09 PM

Ralph,

I ordered the attenuator upgrade off eBay today.  How were the instructions?

73,

Mike
WM4B

# 515. Re: External attenuators and power levels

Yahoo group: hp8924
Date: 2011-12-28 03:42:59 UTC
From: ki0eo@hotmail.com
Topic: 508  Message: 515

If you got it from rfe-toys on ebay there will be a phone number on the data card to call should you have problems.
Also a service manual is very helpful for dis-assembly. Start on page 83 and go from there.
I just installed the 100 watt attenuator, which required removing the attenuator.
Soldering in a new pad should be pretty easy.

Don

--- In hp8924@...m, Ralph Mowery <ku4pt@...> wrote:
>
> I do not think there were any instructions with it.
>
> It is not difficult to install.  I did take some pix of the install of the attenuator. If you would like to see them, let me know and also if you have a high speed connection or dialup.  I do not like to send large files to people with dialup without them knowing about it.
>
> After you get the case off and the top shield, look near the CRT section and you will see a small box ( about 1 inch by 1 1/2 inches) with some small hardline going to it.  Looks to be like about 1/8 of an inch.  Forgot what it is called rg wise.
>
> Do not do like I did and drop one of the screws inside the 8924 and had to go fishing for it..
>
> YOu install the attenuator and then turn the set on and put the card in the slot and do a simple upgrade.  I have forgotten the exect steps.  That just tells the 8924 you now have a 60 watt unit and adjust the internal calculations for it.  The data stays in the 8924 and you can then send the card back.
>
>
>
> --- On Tue, 12/27/11, Mike (WM4B) <mwbesemer@...> wrote:
>
>
> From: Mike (WM4B) <mwbesemer@...>
> Subject: RE: [hp8924] Re: External attenuators and power levels
> To: hp8924@...m
> Date: Tuesday, December 27, 2011, 9:09 PM
>
>
> Ralph,
>
> I ordered the attenuator upgrade off eBay today.  How were the instructions?
>
> 73,

>
> Mike
> WM4B
>

# 516. Re: External attenuators and power levels

Yahoo group: hp8924
Date: 2011-12-28 04:44:32 UTC
From: willcoele@ameritech.net
Topic: 508  Message: 516

I uploaded a file in the files section showing an external 100 watt, 20 db attenuator that I use on my 3 watt unit. To compensate for the 20 db loss, I simply changed the setting in the configuration menu.

Jack WA9FVP
Sent from my From my IPad

--- In hp8924@yahoogroups.com, "jistabout" <darrell@...> wrote:
>
> Hi everyone!
>
> I plan to use my 8924C with an external 30db attenuator which I just bought. My 8924C is the 6w version. Does anybody know how much maximum power handling this will give? How to calculate this? Thanks and happy new year :).
>
> - Darrell/KA7BTV
>

# 517. OT: New video posted: Signal Samplers

Yahoo group: hp8924
Date: 2012-01-04 04:29:29 UTC
From: Brian Swann
Topic: 517  Message: 517

I have posted a new video on using an external attenuator / signal sampler to allow testing of high power transmitters with those wimpy low-power RF I/O connections. I cover measuring the attenuator loss, and setting the offset value in the HP test set.

Comments, corrections, and suggestions welcome. Subscribe to my Youtube channel for notification of new videos.

http://youtu.be/kWHaViwt4Zo

Regards,
Brian
n1bs
n1bsbri's Youtube channel

# 518. Firmware

Yahoo group: hp8924
Date: 2012-01-04 18:13:11 UTC
From: tleather1
Topic: 518  Message: 518

Hi all

I'm looking for update firmware if any one knows ware i can find it for the 8924c

also looking for info on using a gbip to computer to control testset

Thanks

# 519. Re: Firmware

Yahoo group: hp8924
Date: 2012-01-05 04:16:27 UTC
From: willcoele@ameritech.net
Topic: 518  Message: 519

I have version A.06.33 on two PCMCIA cards. My 8924C originally had BETA software and I was lucky to find someone that had a manual and the disk on EBay. It was shipped from Israel.

Jack WA9FVP
Willco Electronics

--- In hp8924@yahoogroups.com, "tleather1" <tleather1@...> wrote:
>
> Hi all
>
> I'm looking for update firmware if any one knows ware i can find it for the 8924c
>
>
> also looking for info on using a gbip to computer to control testset
>
>
> Thanks
>

# 520. Re: Firmware

Yahoo group: hp8924
Date: 2012-01-05 05:39:27 UTC
From: tleather1
Topic: 518  Message: 520

Could you copy the to the file section , or would you like to sell them

--- In hp8924@yahoogroups.com, "willcoele@..." <willcoele@...> wrote:
>
> I have version A.06.33 on two PCMCIA cards. My 8924C originally had BETA software and I was lucky to find someone that had a manual and the disk on EBay. It was shipped from Israel.
>
> Jack WA9FVP
> Willco Electronics
>
> --- In hp8924@yahoogroups.com, "tleather1" <tleather1@> wrote:
> >
> > Hi all
> >
> > I'm looking for update firmware if any one knows ware i can find it for the 8924c
> >
> >
> > also looking for info on using a gbip to computer to control testset
> >
> >
> > Thanks
> >
>

# 521. Re: Firmware

Yahoo group: hp8924
Date: 2012-01-05 14:24:32 UTC
From: willcoele@ameritech.net
Topic: 518  Message: 521

I have no way to read the cards. Even my HP thinkpad that has a PCMCIA slot won't read it. The only way to install the firmware is to insert the card. I uploaded an HP document in the Files section HP8924_Upgrade.jpg. It's a firmware upgrade, step by step instruction.

I can send you cards if you promise to return them when your done.

--- In hp8924@yahoogroups.com, "tleather1" <tleather1@...> wrote:
>
> Could you copy the to the file section , or would you like to sell them

# 522. Re: [hp8924] Re: Firmware

Yahoo group: hp8924
Date: 2012-01-05 17:05:18 UTC
From: Robert Atkinson
Topic: 518  Message: 522

Hi Will,
You can download a demo copy of Elan's Memory Card Explorer (MCE) software. This will copy a binary image of the card. It wil run on a laptop with windows and a PCMCIA card slot.

Regards,
Robert.

---
From: "willcoele@..." <willcoele@ameritech.net>
To: hp8924@yahoogroups.com
Sent: Thursday, 5 January 2012, 14:24
Subject: [hp8924] Re: Firmware

I have no way to read the cards. Even my HP thinkpad that has a PCMCIA slot won't read it. The only way to install the firmware is to insert the card. I uploaded an HP document in the Files section HP8924_Upgrade.jpg. It's a firmware upgrade, step by step instruction.

I can send you cards if you promise to return them when your done.

--- In hp8924@yahoogroups.com, "tleather1" <tleather1@...> wrote:
>
> Could you copy the to the file section , or would you like to sell them

# 523. Re: Firmware

Yahoo group: hp8924
Date: 2012-01-05 18:54:13 UTC
From: willcoele@ameritech.net
Topic: 518  Message: 523

Unless you purchase it for $100, I can't find a free download.

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Hi Will,
> You can download a demo copy of Elan's Memory Card Explorer (MCE) software. This will copy a binary image of the card. It wil run on a laptop with windows and a PCMCIA card slot.
> Â
> Regards,
> Robert.
>

# 524. Re: [hp8924] Re: Firmware

Yahoo group: hp8924
Date: 2012-01-05 20:25:13 UTC
From: Robert Atkinson
Topic: 518  Message: 524

Hi Will,
It should be here < http://www.elandigitalsystems.com/copy/mcedemo.php > but there is a problem with the page. Try dropping them an email.  There are other sources on the web but they are not authorised copies.
Robert G8RPI.

---
From: "willcoele@..." <willcoele@...>
To: hp8924@yahoogroups.com
Sent: Thursday, 5 January 2012, 18:54
Subject: [hp8924] Re: Firmware

Unless you purchase it for $100, I can't find a free download.

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Hi Will,
> You can download a demo copy of Elan's Memory Card Explorer (MCE) software. This will copy a binary image of the card. It wil run on a laptop with windows and a PCMCIA card slot.
> Â
> Regards,
> Robert.
>

# 525. Re: Firmware

Yahoo group: hp8924
Date: 2012-01-05 20:43:06 UTC
From: willcoele@ameritech.net
Topic: 518  Message: 525

Explorer 9 doesn't work so I used Firefox.

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Hi Will,
> ItÂ should be here < http://www.elandigitalsystems.com/copy/mcedemo.phpÂ > but there is a problem with the page. Try dropping them an email.Â  There are other sources on the web but they are not authorised copies.
> Robert G8RPI.
>

# 526. Re: Firmware

Yahoo group: hp8924
Date: 2012-01-07 02:08:30 UTC
From: willcoele@ameritech.net
Topic: 518  Message: 526

Hi Robert,

Setup.exe is missing

Jack WA9FVP
Willco Electronics.

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Hi Will,
> ItÂ should be here < http://www.elandigitalsystems.com/copy/mcedemo.phpÂ > but there is a problem with the page. Try dropping them an email.Â  There are other sources on the web but they are not authorised copies.
> Robert G8RPI.
>
>

# 527. Re: [hp8924] Re: Firmware

Yahoo group: hp8924
Date: 2012-01-07 02:52:32 UTC
From: tleather1@gmail.com
Topic: 518  Message: 527

Look in the file section I post sw there yesterday zip both zip files to new folder then set up It is for win 98 it may work with XP
Sent from my BlackBerry® smartphone with Nextel Direct Connect

-----Original Message-----
From: "willcoele@ameritech.net" <willcoele@ameritech.net>
Sender: hp8924@yahoogroups.com
Date: Sat, 07 Jan 2012 02:08:30
To: <hp8924@yahoogroups.com>
Reply-To: hp8924@yahoogroups.com
Subject: [hp8924] Re: Firmware

Hi Robert,

Setup.exe is missing

Jack WA9FVP
Willco Electronics.

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Hi Will,
> ItÂ should be here < http://www.elandigitalsystems.com/copy/mcedemo.phpÂ > but there is a problem with the page. Try dropping them an email.Â  There are other sources on the web but they are not authorised copies.
> Robert G8RPI.
>
>

# 528. Re: Firmware

Yahoo group: hp8924
Date: 2012-01-07 03:48:33 UTC
From: willcoele@ameritech.net
Topic: 518  Message: 528

I unzipped the files and there's no setup.exe.

--- In hp8924@yahoogroups.com, tleather1@... wrote:
>
> Look in the file section I post sw there yesterday zip both zip files to new folder then set up It is for win 98 it may work with XP
> Sent from my BlackBerry® smartphone with Nextel Direct Connect
>
> -----Original Message-----
> From: "willcoele@..." <willcoele@...>
> Sender: hp8924@yahoogroups.com
> Date: Sat, 07 Jan 2012 02:08:30
> To: <hp8924@yahoogroups.com>
> Reply-To: hp8924@yahoogroups.com
> Subject: [hp8924] Re: Firmware
>

# 529. Re: Firmware

Yahoo group: hp8924
Date: 2012-01-08 06:37:08 UTC
From: willcoele@ameritech.net
Topic: 518  Message: 529

After all the "Tinkering" it finally works! I was able to save the cards into a file and using a hex editor software, I was able to verify the contents. Because I can maximize the window, the hex editor is better than MCE for viewing the file. The only thing I didn't like about MCE is that you have to turn off write protect in order to read the card.

--- In hp8924@yahoogroups.com, "willcoele@..." <willcoele@...> wrote:
>
>
> I unzipped the files and there's no setup.exe.
>
> --- In hp8924@yahoogroups.com, tleather1@ wrote:
> >
> > Look in the file section I post sw there yesterday zip both zip files to new folder then set up It is for win 98 it may work with XP
> > Sent from my BlackBerry® smartphone with Nextel Direct Connect
> >
> > -----Original Message-----
> > From: "willcoele@" <willcoele@>
> > Sender: hp8924@yahoogroups.com
> > Date: Sat, 07 Jan 2012 02:08:30
> > To: <hp8924@yahoogroups.com>
> > Reply-To: hp8924@yahoogroups.com
> > Subject: [hp8924] Re: Firmware
> >
>

# 530. New file uploaded to hp8924

Yahoo group: hp8924
Date: 2012-01-08 14:28:53 UTC
From: hp8924@yahoogroups.com
Topic: 31  Message: 530

```
Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hp8924
group.

File : /A.06.33 Firmware/8924_2_a0633.bin
Uploaded by : willcoele@... <willcoele@...>
Description : A.06.33 (2 of 2)

You can access this file at the URL:
http://groups.yahoo.com/group/hp8924/files/A.06.33%20Firmware/8924_2_a0633.bin

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

willcoele@... <willcoele@...>
```

# 531. Re: New file uploaded to hp8924

Yahoo group: hp8924
Date: 2012-01-08 14:47:09 UTC
From: willcoele@ameritech.net
Topic: 31  Message: 531

If you have a newer version, upload it to the files section and to save space, I'll delete my files. As time permits, I'll update "My Analog Settings". This file is a collection of presets that I use for my 8924C. You might find them useful but remember, I have an external power attenuator. If you have a 60 or 100 watt unit, in the Configure menu, turn off the RF Level Offset and save the setting.

--- In hp8924@yahoogroups.com, hp8924@yahoogroups.com wrote:
>
>
> Hello,
>
> This email message is a notification to let you know that
> a file has been uploaded to the Files area of the hp8924
> group.
>
> File : /A.06.33 Firmware/8924_2_a0633.bin
> Uploaded by : willcoele@... <willcoele@...>
> Description : A.06.33 (2 of 2)
>
> You can access this file at the URL:
> http://groups.yahoo.com/group/hp8924/files/A.06.33%20Firmware/8924_2_a0633.bin
>
> To learn more about file sharing for your group, please visit:
> http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
> Regards,
>
> willcoele@... <willcoele@...>
>

# 532. HP-8924C 60 Watt Upgrade from eBay

Yahoo group: hp8924
Date: 2012-01-08 22:56:08 UTC
From: Mike (WM4B)
Topic: 532  Message: 532

I installed the new attenuator from the eBay 60-watt upgrade kit today, but can't seem to get the calibration data uploaded.

When I go to the TESTS menu, and set the 'Load Test Procedure' to 'CARD' and the 'Select Procedure Filename', it appears that there is nothing on the card. At the top of the screen, it says " Error 85 During Procedure Catalog"

I've got message in to the eBay seller, but sure would like to get this figured out so I can get the test set running again.

73,

Mike
WM4B

# 533. Re: [hp8924] HP-8924C 60 Watt Upgrade from eBay

Yahoo group: hp8924
Date: 2012-01-09 00:12:17 UTC
From: Ralph Mowery
Topic: 532  Message: 533

This is out of the service manual.  Did you press the K1 button after setting Loction field to Card ?

Downloading Calibration Data
Most assemblies in the Test Set require calibration data. To ensure that the Test Set remains calibrated after an assembly is replaced, new calibration data must be downloaded. When required, calibration data is provided on a PCMCIA memory card that is included with the replacement assembly. Refer to table 3, "Troubleshooting" on page 49 to see which modules require calibration data.
Calibration Data Download Procedure
1. Switch the Test Set’s power off.
2. Remove the faulty assembly.
3. Install the replacement assembly.
4. Switch the Test Set’s power on.
5. Insert the memory card.
6. Press the TESTS key.
7. Set the Select Procedure Location: field to Card.
8. Press the K1 key to run the test.
9. Follow the instructions on the screen.
10.Set the Select Procedure Filename: field to: DNLDCAL.

1/8/12, Mike (WM4B) <mwbesemer@...> wrote:

From: Mike (WM4B) <mwbesemer@cox.net>
Subject: [hp8924] HP-8924C 60 Watt Upgrade from eBay
To: hp8924@yahoogroups.com
Date: Sunday, January 8, 2012, 5:56 PM

I installed the new attenuator from the eBay 60-watt upgrade kit today, but can't seem to get the calibration data uploaded.

When I go to the TESTS menu, and set the 'Load Test Procedure' to 'CARD' and the 'Select Procedure Filename', it appears that there is nothing on the card.  At the top of the screen, it says " Error 85 During Procedure Catalog"

I've got message in to the eBay seller, but sure would like to get this figured out so I can get the test set running again.

73,

Mike
WM4B

# 534. RE: [hp8924] HP-8924C 60 Watt Upgrade from eBay

Yahoo group: hp8924
Date: 2012-01-09 00:23:26 UTC
From: Mike (WM4B)
Topic: 532  Message: 534

Yes. I get two very quick beeps and two errors. The first says ‘IBASIC ERROR 256 PROGRAM ROUTINE ERROR’ (this happens VERY quickly… had to run it about 50 times to finally see it all) and the second says ‘ERROR 53 Improper File Name’.

I really think the PCMCIA card is either blank or bad (or perhaps the wrong one… it had ‘100 watt data’ written on it in marker and it is crossed out and changed to ’60 watt data’ It also did not have the Write Protect enabled, so maybe the last guy to use it overwrote it. I also noticed that it has an ever-so-slight bend in it; I wonder if it got damaged when the Post Office ran it through the machines.

73,

Mike

WM4B

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Ralph Mowery
Sent: Sunday, January 08, 2012 7:12 PM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] HP-8924C 60 Watt Upgrade from eBay

This is out of the service manual. Did you press the K1 button after setting Loction field to Card ?

Downloading Calibration Data

Most assemblies in the Test Set require calibration data. To ensure that

the Test Set remains calibrated after an assembly is replaced, new

calibration data must be downloaded. When required, calibration data

is provided on a PCMCIA memory card that is included with the

replacement assembly. Refer to table 3, "Troubleshooting" on page 49 to see

which modules require calibration data.

Calibration Data Download Procedure

1. Switch the Test Set’s power off.

2. Remove the faulty assembly.

3. Install the replacement assembly.

4. Switch the Test Set’s power on.

5. Insert the memory card.

6. Press the TESTS key.

7. Set the Select Procedure Location: field to Card.

8. Press the K1 key to run the test.

9. Follow the instructions on the screen.

10.Set the

Select Procedure Filename: field to: DNLDCAL.

1/8/12, Mike (WM4B) <mwbesemer@...> wrote:

From: Mike (WM4B) <mwbesemer@...>
Subject: [hp8924] HP-8924C 60 Watt Upgrade from eBay
To: hp8924@yahoogroups.com
Date: Sunday, January 8, 2012, 5:56 PM

I installed the new attenuator from the eBay 60-watt upgrade kit today, but can't seem to get the calibration data uploaded.

When I go to the TESTS menu, and set the 'Load Test Procedure' to 'CARD' and the 'Select Procedure Filename', it appears that there is nothing on the card. At the top of the screen, it says " Error 85 During Procedure Catalog"

I've got message in to the eBay seller, but sure would like to get this figured out so I can get the test set running again.

73,

Mike
WM4B

# 535. Re: HP-8924C 60 Watt Upgrade from eBay

Yahoo group: hp8924
Date: 2012-01-09 00:56:25 UTC
From: ki0eo@hotmail.com
Topic: 532  Message: 535

Mike,

Who was the Ebay seller, if you don't mind me asking ?

Don KI0EO

--- In hp8924@yahoogroups.com, "Mike \(WM4B\)" <mwbesemer@...> wrote:
>
> Yes. I get two very quick beeps and two errors. The first says â□□IBASIC ERROR 256 PROGRAM ROUTINE ERRORâ□□ (this happens VERY quicklyâ□¦ had to run it about 50 times to finally see it all) and the second says â□□ERROR 53 Improper File Nameâ□□.
>
>
>
> I really think the PCMCIA card is either blank or bad (or perhaps the wrong oneâ□¦ it had â□□100 watt dataâ□□ written on it in marker and it is crossed out and changed to â□□60 watt dataâ□□ It also did not have the Write Protect enabled, so maybe the last guy to use it overwrote it. I also noticed that it has an ever-so-slight bend in it; I wonder if it got damaged when the Post Office ran it through the machines.
>
>
>
> 73,
>
>
>
> Mike
>
> WM4B
>
>
>
> From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Ralph Mowery
> Sent: Sunday, January 08, 2012 7:12 PM
> To: hp8924@yahoogroups.com
> Subject: Re: [hp8924] HP-8924C 60 Watt Upgrade from eBay
>
>
>
>
>
>
> This is out of the service manual. Did you press the K1 button after setting Loction field to Card ?
>
>
>

> Downloading Calibration Data
>
> Most assemblies in the Test Set require calibration data. To ensure that
>
> the Test Set remains calibrated after an assembly is replaced, new
>
> calibration data must be downloaded. When required, calibration data
>
> is provided on a PCMCIA memory card that is included with the
>
> replacement assembly. Refer to table 3, "Troubleshooting" on page 49 to see
>
> which modules require calibration data.
>
> Calibration Data Download Procedure
>
> 1. Switch the Test Setâ□□s power off.
>
> 2. Remove the faulty assembly.
>
> 3. Install the replacement assembly.
>
> 4. Switch the Test Setâ□□s power on.
>
> 5. Insert the memory card.
>
> 6. Press the TESTS key.
>
> 7. Set the Select Procedure Location: field to Card.
>
> 8. Press the K1 key to run the test.
>
> 9. Follow the instructions on the screen.
>
> 10.Set the
>
> Select Procedure Filename: field to: DNLDCAL.
>
>
>
> 1/8/12, Mike (WM4B) <mwbesemer@...> wrote:
>
>
> From: Mike (WM4B) <mwbesemer@...>
> Subject: [hp8924] HP-8924C 60 Watt Upgrade from eBay
> To: hp8924@yahoogroups.com
> Date: Sunday, January 8, 2012, 5:56 PM
>
> I installed the new attenuator from the eBay 60-watt upgrade kit today, but

> can't seem to get the calibration data uploaded.
>
> When I go to the TESTS menu, and set the 'Load Test Procedure' to 'CARD' and
> the 'Select Procedure Filename', it appears that there is nothing on the
> card. At the top of the screen, it says " Error 85 During Procedure
> Catalog"
>
> I've got message in to the eBay seller, but sure would like to get this
> figured out so I can get the test set running again.
>
> 73,
>
> Mike
> WM4B
>

# 536. RE: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

Yahoo group: hp8924
Date: 2012-01-09 01:00:18 UTC
From: Mike (WM4B)
Topic: 532  Message: 536

rfe_toys

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of ki0eo@...
Sent: Sunday, January 08, 2012 7:56 PM
To: hp8924@yahoogroups.com
Subject: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

Mike,

Who was the Ebay seller, if you don't mind me asking ?

Don KI0EO

--- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com> , "Mike \(WM4B\)" <mwbesemer@...> wrote:
>
> Yes. I get two very quick beeps and two errors. The first says â€˜IBASIC ERROR 256 PROGRAM ROUTINE ERRORâ€™ (this happens VERY quicklyâ€¦ had to run it about 50 times to finally see it all) and the second says â€˜ERROR 53 Improper File Nameâ€™.
>
>
>
> I really think the PCMCIA card is either blank or bad (or perhaps the wrong oneâ€¦ it had â€˜100 watt dataâ€™ written on it in marker and it is crossed out and changed to â€™60 watt dataâ€™ It also did not have the Write Protect enabled, so maybe the last guy to use it overwrote it. I also noticed that it has an ever-so-slight bend in it; I wonder if it got damaged when the Post Office ran it through the machines.
>
>
>
> 73,
>
>
>
> Mike
>
> WM4B
>
>
>
> From: hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com> [mailto:hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com> ] On Behalf Of Ralph Mowery
> Sent: Sunday, January 08, 2012 7:12 PM
> To: hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>
> Subject: Re: [hp8924] HP-8924C 60 Watt Upgrade from eBay

>
>
>
>
>
>
> This is out of the service manual. Did you press the K1 button after setting Loction field to Card ?
>
>
>
> Downloading Calibration Data
>
> Most assemblies in the Test Set require calibration data. To ensure that
>
> the Test Set remains calibrated after an assembly is replaced, new
>
> calibration data must be downloaded. When required, calibration data
>
> is provided on a PCMCIA memory card that is included with the
>
> replacement assembly. Refer to table 3, "Troubleshooting" on page 49 to see
>
> which modules require calibration data.
>
> Calibration Data Download Procedure
>
> 1. Switch the Test Setâ€™s power off.
>
> 2. Remove the faulty assembly.
>
> 3. Install the replacement assembly.
>
> 4. Switch the Test Setâ€™s power on.
>
> 5. Insert the memory card.
>
> 6. Press the TESTS key.
>
> 7. Set the Select Procedure Location: field to Card.
>
> 8. Press the K1 key to run the test.
>
> 9. Follow the instructions on the screen.
>
> 10.Set the
>
> Select Procedure Filename: field to: DNLDCAL.
>
>

>
> 1/8/12, Mike (WM4B) <mwbesemer@...> wrote:
>
>
> From: Mike (WM4B) <mwbesemer@...>
> Subject: [hp8924] HP-8924C 60 Watt Upgrade from eBay
> To: hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>
> Date: Sunday, January 8, 2012, 5:56 PM
>
> I installed the new attenuator from the eBay 60-watt upgrade kit today, but
> can't seem to get the calibration data uploaded.
>
> When I go to the TESTS menu, and set the 'Load Test Procedure' to 'CARD' and
> the 'Select Procedure Filename', it appears that there is nothing on the
> card. At the top of the screen, it says " Error 85 During Procedure
> Catalog"
>
> I've got message in to the eBay seller, but sure would like to get this
> figured out so I can get the test set running again.
>
> 73,
>
> Mike
> WM4B
>

# 537. Re: HP-8924C 60 Watt Upgrade from eBay

Yahoo group: hp8924
Date: 2012-01-09 01:11:45 UTC
From: ki0eo@hotmail.com
Topic: 532  Message: 537

Bought a 100 watt kit from him a few weeks ago.
I believe he probably has a phone number (on the card) to call if you have troubles.
I struggled with getting the new CAL data loaded since I'm new to HP products. I called Dan on the phone and he was very helpful.

Does sound like your card is possibly corrupt though.
When you go to "select procedure filename" you should see a list of files on the lower right.

Don KI0EO

--- In hp8924@yahoogroups.com, "Mike \(WM4B\)" <mwbesemer@...> wrote:
>
> rfe_toys
>
>
>
> From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of ki0eo@...
> Sent: Sunday, January 08, 2012 7:56 PM
> To: hp8924@yahoogroups.com
> Subject: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay
>
>
>
>
>
> Mike,
>
> Who was the Ebay seller, if you don't mind me asking ?
>
> Don KI0EO
>
> --- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com> , "Mike \(WM4B\)" <mwbesemer@> wrote:
> >
> > Yes. I get two very quick beeps and two errors. The first says Ã¢â□¬Ë□IBASIC ERROR 256 PROGRAM ROUTINE ERRORÃ¢â□¬â□¢ (this happens VERY quicklyÃ¢â□¬Â¦ had to run it about 50 times to finally see it all) and the second says Ã¢â□¬Ë□ERROR 53 Improper File NameÃ¢â□¬â□¢.
> >
> >
> >
> > I really think the PCMCIA card is either blank or bad (or perhaps the wrong oneÃ¢â□¬Â¦ it had Ã¢â□¬Ë□100 watt dataÃ¢â□¬â□¢ written on it in marker and it is crossed out and changed to Ã¢â□¬â□¢60 watt dataÃ¢â□¬â□¢ It also did not have the Write Protect enabled, so maybe the last guy to use it overwrote it. I also noticed that it has an ever-so-slight bend in it; I wonder if it got damaged when the Post Office ran it through the machines.
> >

> >
> >
> > 73,
> >
> >
> >
> > Mike
> >
> > WM4B
> >
> >
> >
> > From: hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com> [mailto:hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com> ] On Behalf Of Ralph Mowery
> > Sent: Sunday, January 08, 2012 7:12 PM
> > To: hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>
> > Subject: Re: [hp8924] HP-8924C 60 Watt Upgrade from eBay
> >
> >
> >
> >
> >
> >
> > This is out of the service manual. Did you press the K1 button after setting Loction field to Card ?
> >
> >
> >
> > Downloading Calibration Data
> >
> > Most assemblies in the Test Set require calibration data. To ensure that
> >
> > the Test Set remains calibrated after an assembly is replaced, new
> >
> > calibration data must be downloaded. When required, calibration data
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> > is provided on a PCMCIA memory card that is included with the
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> > replacement assembly. Refer to table 3, "Troubleshooting" on page 49 to see
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> > which modules require calibration data.
> >
> > Calibration Data Download Procedure
> >
> > 1. Switch the Test SetÃ¢â□¬â□¢s power off.
> >
> > 2. Remove the faulty assembly.
> >
> > 3. Install the replacement assembly.
> >

> > 4. Switch the Test SetÃ¢â□¬â□¢s power on.
> >
> > 5. Insert the memory card.
> >
> > 6. Press the TESTS key.
> >
> > 7. Set the Select Procedure Location: field to Card.
> >
> > 8. Press the K1 key to run the test.
> >
> > 9. Follow the instructions on the screen.
> >
> > 10.Set the
> >
> > Select Procedure Filename: field to: DNLDCAL.
> >
> >
> >
> > 1/8/12, Mike (WM4B) <mwbesemer@> wrote:
> >
> >
> > From: Mike (WM4B) <mwbesemer@>
> > Subject: [hp8924] HP-8924C 60 Watt Upgrade from eBay
> > To: hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>
> > Date: Sunday, January 8, 2012, 5:56 PM
> >
> > I installed the new attenuator from the eBay 60-watt upgrade kit today, but
> > can't seem to get the calibration data uploaded.
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> > When I go to the TESTS menu, and set the 'Load Test Procedure' to 'CARD' and
> > the 'Select Procedure Filename', it appears that there is nothing on the
> > card. At the top of the screen, it says " Error 85 During Procedure
> > Catalog"
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> > I've got message in to the eBay seller, but sure would like to get this
> > figured out so I can get the test set running again.
> >
> > 73,
> >
> > Mike
> > WM4B
> >
>

# 538. RE: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

Yahoo group: hp8924
Date: 2012-01-09 01:14:19 UTC
From: Mike (WM4B)
Topic: 532  Message: 538

Thanks Don… I thought there should be a list of files there. That’s the way it looks when I select ‘ROM’… figured it’d look the same with the card.

I’ll call him tomorrow… don’t want to bug him on Sunday night.

73,

Mike

WM4B

From: hp8924@yahoogroups.com [mailto:hp8924@...m] On Behalf Of ki0eo@...
Sent: Sunday, January 08, 2012 8:12 PM
To: hp8924@yahoogroups.com
Subject: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

Bought a 100 watt kit from him a few weeks ago.
I believe he probably has a phone number (on the card) to call if you have troubles.
I struggled with getting the new CAL data loaded since I'm new to HP products. I called Dan on the phone and he was very helpful.

Does sound like your card is possibly corrupt though.
When you go to "select procedure filename" you should see a list of files on the lower right.

Don KI0EO

--- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com> , "Mike \(WM4B\)" <mwbesemer@...> wrote:
>
> rfe_toys
>
>
>
> From: hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com> [mailto:hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com> ] On Behalf Of ki0eo@...
> Sent: Sunday, January 08, 2012 7:56 PM
> To: hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>
> Subject: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay
>
>
>
>
>
> Mike,
>
> Who was the Ebay seller, if you don't mind me asking ?

>
> Don KI0EO
>
> --- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>
<mailto:hp8924%40yahoogroups.com> , "Mike \(WM4B\)" <mwbesemer@> wrote:
> >
> > Yes. I get two very quick beeps and two errors. The first says Ã¢â‚¬ËœIBASIC ERROR 256 PROGRAM ROUTINE ERRORÃ¢â‚¬â„¢ (this happens VERY quicklyÃ¢â‚¬Â¦ had to run it about 50 times to finally see it all) and the second says Ã¢â‚¬ËœERROR 53 Improper File NameÃ¢â‚¬â„¢.
> >
> >
> >
> > I really think the PCMCIA card is either blank or bad (or perhaps the wrong oneÃ¢â‚¬Â¦ it had Ã¢â‚¬Ëœ100 watt dataÃ¢â‚¬â„¢ written on it in marker and it is crossed out and changed to Ã¢â‚¬â„¢60 watt dataÃ¢â‚¬â„¢ It also did not have the Write Protect enabled, so maybe the last guy to use it overwrote it. I also noticed that it has an ever-so-slight bend in it; I wonder if it got damaged when the Post Office ran it through the machines.
> >
> >
> >
> > 73,
> >
> >
> >
> > Mike
> >
> > WM4B
> >
> >
> >
> > From: hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>
<mailto:hp8924%40yahoogroups.com> [mailto:hp8924@yahoogroups.com
<mailto:hp8924%40yahoogroups.com> <mailto:hp8924%40yahoogroups.com> ] On Behalf Of Ralph Mowery
> > Sent: Sunday, January 08, 2012 7:12 PM
> > To: hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>
<mailto:hp8924%40yahoogroups.com>
> > Subject: Re: [hp8924] HP-8924C 60 Watt Upgrade from eBay
> >
> >
> >
> >
> >
> >
> > This is out of the service manual. Did you press the K1 button after setting Loction field to Card ?
> >
> >
> >

> > Downloading Calibration Data
> >
> > Most assemblies in the Test Set require calibration data. To ensure that
> >
> > the Test Set remains calibrated after an assembly is replaced, new
> >
> > calibration data must be downloaded. When required, calibration data
> >
> > is provided on a PCMCIA memory card that is included with the
> >
> > replacement assembly. Refer to table 3, "Troubleshooting" on page 49 to see
> >
> > which modules require calibration data.
> >
> > Calibration Data Download Procedure
> >
> > 1. Switch the Test SetÃ¢â‚¬â„¢s power off.
> >
> > 2. Remove the faulty assembly.
> >
> > 3. Install the replacement assembly.
> >
> > 4. Switch the Test SetÃ¢â‚¬â„¢s power on.
> >
> > 5. Insert the memory card.
> >
> > 6. Press the TESTS key.
> >
> > 7. Set the Select Procedure Location: field to Card.
> >
> > 8. Press the K1 key to run the test.
> >
> > 9. Follow the instructions on the screen.
> >
> > 10.Set the
> >
> > Select Procedure Filename: field to: DNLDCAL.
> >
> >
> >
> > 1/8/12, Mike (WM4B) <mwbesemer@> wrote:
> >
> >
> > From: Mike (WM4B) <mwbesemer@>
> > Subject: [hp8924] HP-8924C 60 Watt Upgrade from eBay
> > To: hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>
<mailto:hp8924%40yahoogroups.com>
> > Date: Sunday, January 8, 2012, 5:56 PM
> >
> > I installed the new attenuator from the eBay 60-watt upgrade kit today, but

> > can't seem to get the calibration data uploaded.
> >
> > When I go to the TESTS menu, and set the 'Load Test Procedure' to 'CARD' and
> > the 'Select Procedure Filename', it appears that there is nothing on the
> > card. At the top of the screen, it says " Error 85 During Procedure
> > Catalog"
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> > I've got message in to the eBay seller, but sure would like to get this
> > figured out so I can get the test set running again.
> >
> > 73,
> >
> > Mike
> > WM4B
> >
>

# 539. Re: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

Yahoo group: hp8924
Date: 2012-01-09 01:22:42 UTC
From: Ralph Mowery
Topic: 532  Message: 539

I ordered one from him a couple of months ago.  Came in  the mail in a few days and works fine.  I think it was about $ 200 with a $ 50 rebate if you send back in the programming card.  He has several of them.

The information show on ebay is sort of misleading.  All you get is a small atenuator chip about the size of a postage stamp and thick as a couple of coins.  After sending back in the programming card, he credited me back about $ 50 on my master card.

I took some pix of the instalation and if you do not mind large files, I can send them direct.

--- On Sun, 1/8/12, ki0eo@... <ki0eo@...> wrote:

From: ki0eo@hotmail.com <ki0eo@...>
Subject: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay
To: hp8924@yahoogroups.com
Date: Sunday, January 8, 2012, 7:56 PM

Mike,

Who was the Ebay seller, if you don't mind me asking ?

Don  KI0EO

# 540. Re: HP-8924C 60 Watt Upgrade from eBay

Yahoo group: hp8924
Date: 2012-01-09 02:58:23 UTC
From: ki0eo@hotmail.com
Topic: 532  Message: 540

I'm sure he will make it right with you.

Don KI0EO

--- In hp8924@yahoogroups.com, "Mike \(WM4B\)" <mwbesemer@...> wrote:
>
> Thanks Donâ□¦ I thought there should be a list of files there. Thatâ□□s the way it looks when I select â□□ROMâ□□â□¦ figured itâ□□d look the same with the card.
>
>
>
> Iâ□□ll call him tomorrowâ□¦ donâ□□t want to bug him on Sunday night.
>
>
>
> 73,
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>
> Mike
>
> WM4B
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>
>
> From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of ki0eo@...
> Sent: Sunday, January 08, 2012 8:12 PM
> To: hp8924@yahoogroups.com
> Subject: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay
>
>
>
>
>
>
> Bought a 100 watt kit from him a few weeks ago.
> I believe he probably has a phone number (on the card) to call if you have troubles.
> I struggled with getting the new CAL data loaded since I'm new to HP products. I called Dan on the phone and he was very helpful.
>
> Does sound like your card is possibly corrupt though.
> When you go to "select procedure filename" you should see a list of files on the lower right.
>
> Don KI0EO

>
> --- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com> , "Mike \(WM4B\)" <mwbesemer@> wrote:
> >
> > rfe_toys
> >
> >
> >
> > From: hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com> [mailto:hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com> ] On Behalf Of ki0eo@
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> > To: hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>
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> > Mike,
> >
> > Who was the Ebay seller, if you don't mind me asking ?
> >
> > Don KI0EO
> >
> > --- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com> <mailto:hp8924%40yahoogroups.com> , "Mike \(WM4B\)" <mwbesemer@> wrote:
> > >
> > > Yes. I get two very quick beeps and two errors. The first says Ã□Â¢Ã¢â□□Â¬Ã□Å"IBASIC ERROR 256 PROGRAM ROUTINE ERRORÃ□Â¢Ã¢â□□Â¬Ã¢â□□Â¢ (this happens VERY quicklyÃ□Â¢Ã¢â□□Â¬Ã□Â¦ had to run it about 50 times to finally see it all) and the second says Ã□Â¢Ã¢â□□Â¬Ã□Å"ERROR 53 Improper File NameÃ□Â¢Ã¢â□□Â¬Ã¢â□□Â¢.
> > >
> > >
> > >
> > > I really think the PCMCIA card is either blank or bad (or perhaps the wrong oneÃ□Â¢Ã¢â□□Â¬Ã□Â¦ it had Ã□Â¢Ã¢â□□Â¬Ã□Å"100 watt dataÃ□Â¢Ã¢â□□Â¬Ã¢â□□Â¢ written on it in marker and it is crossed out and changed to Ã□Â¢Ã¢â□□Â¬Ã¢â□□Â¢60 watt dataÃ□Â¢Ã¢â□□Â¬Ã¢â□□Â¢ It also did not have the Write Protect enabled, so maybe the last guy to use it overwrote it. I also noticed that it has an ever-so-slight bend in it; I wonder if it got damaged when the Post Office ran it through the machines.
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> > >
> > > From: hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>
<mailto:hp8924%40yahoogroups.com> [mailto:hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>
<mailto:hp8924%40yahoogroups.com> ] On Behalf Of Ralph Mowery
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> > > This is out of the service manual. Did you press the K1 button after setting Loction field to Card ?
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> > >
> > > Downloading Calibration Data
> > >
> > > Most assemblies in the Test Set require calibration data. To ensure that
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> > > the Test Set remains calibrated after an assembly is replaced, new
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> > > calibration data must be downloaded. When required, calibration data
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> > > is provided on a PCMCIA memory card that is included with the
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> > > which modules require calibration data.
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> > > Calibration Data Download Procedure
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> > > 1. Switch the Test SetÃ□Â¢Ã¢â□□Â¬Ã¢â□□Â¢s power off.
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> > > 6. Press the TESTS key.
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> > > 7. Set the Select Procedure Location: field to Card.
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> > > figured out so I can get the test set running again.
> > >
> > > 73,
> > >
> > > Mike
> > > WM4B
> > >
> >
>

# 541. RE: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

Yahoo group: hp8924
Date: 2012-01-09 03:05:58 UTC
From: Mike (WM4B)
Topic: 532  Message: 541

Me too… no worries. I really suspect the card is either blank or bad.

Stuff happens and thankfully I'm not hurting for the test set right now. (If I were, I'd put the old attenuator back in.)

73,

Mike

WM4B

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of ki0eo@...
Sent: Sunday, January 08, 2012 9:58 PM
To: hp8924@yahoogroups.com
Subject: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

I'm sure he will make it right with you.

Don KI0EO

--- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com> , "Mike \(WM4B\)" <mwbesemer@...> wrote:
>
> Thanks Donâ€¦ I thought there should be a list of files there. Thatâ€™s the way it looks when I select â€˜ROMâ€™â€¦ figured itâ€™d look the same with the card.
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> Iâ€™ll call him tomorrowâ€¦ donâ€™t want to bug him on Sunday night.
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> 73,
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> Mike
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> Sent: Sunday, January 08, 2012 8:12 PM
> To: hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>
> Subject: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

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> > Mike,
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> > Who was the Ebay seller, if you don't mind me asking ?
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> > >
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> > > From: hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com> <mailto:hp8924%40yahoogroups.com> <mailto:hp8924%40yahoogroups.com> [mailto:hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com> <mailto:hp8924%40yahoogroups.com> <mailto:hp8924%40yahoogroups.com> ] On Behalf Of Ralph Mowery
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> > > Calibration Data Download Procedure
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> > > 6. Press the TESTS key.
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> > > 7. Set the Select Procedure Location: field to Card.
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> > > Subject: [hp8924] HP-8924C 60 Watt Upgrade from eBay
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> > > figured out so I can get the test set running again.
> > >
> > > 73,
> > >
> > > Mike
> > > WM4B
> > >
> >
>

# 542. Re: [hp8924] HP-8924C 60 Watt Upgrade from eBay

Yahoo group: hp8924
Date: 2012-01-09 16:00:19 UTC
From: gerald bishop
Topic: 532  Message: 542

Hi- Looking for one of these kits also,Might I have his usename on the bay ??TKS,Jerry gsbishop@...

--- On Sun, 1/8/12, Mike (WM4B) <mwbesemer@...> wrote:

From: Mike (WM4B) <mwbesemer@...>
Subject: [hp8924] HP-8924C 60 Watt Upgrade from eBay
To: hp8924@yahoogroups.com
Date: Sunday, January 8, 2012, 5:56 PM

I installed the new attenuator from the eBay 60-watt upgrade kit today, but

can't seem to get the calibration data uploaded.

When I go to the TESTS menu, and set the 'Load Test Procedure' to 'CARD' and

the 'Select Procedure Filename', it appears that there is nothing on the

card. At the top of the screen, it says " Error 85 During Procedure

Catalog"

I've got message in to the eBay seller, but sure would like to get this

figured out so I can get the test set running again.

73,

Mike

WM4B

# 543. Re: [hp8924] HP-8924C 60 Watt Upgrade from eBay

Yahoo group: hp8924
Date: 2012-01-09 16:02:32 UTC
From: Tim Ahrens
Topic: 532  Message: 543

It's rfe_toys.

Here's one of his listings:

http://www.ebay.com/itm/HP-8920A-8921A-8920B-8924C-60-Watt-kit-NEW-lower-price-/270774421503?pt=LH_DefaultDomain_0&hash=item3f0b69c7ff

Tim

# 544. Re: [hp8924] HP-8924C 60 Watt Upgrade from eBay

Yahoo group: hp8924
Date: 2012-01-09 23:08:23 UTC
From: gerald bishop
Topic: 532  Message: 544

TKS,Jerry

--- On Mon, 1/9/12, Tim Ahrens <tim@...> wrote:

From: Tim Ahrens <tim@...>
Subject: Re: [hp8924] HP-8924C 60 Watt Upgrade from eBay
To: hp8924@yahoogroups.com
Date: Monday, January 9, 2012, 11:02 AM

It's rfe_toys.

Here's one of his listings:

http://www.ebay.com/itm/HP-8920A-8921A-8920B-8924C-60-Watt-kit-NEW-lower-price-/270774421503?pt=LH_DefaultDomain_0&hash=item3f0b69c7ff

Tim

# 545. Controlling the 8924 via serial port

Yahoo group: hp8924
Date: 2012-01-15 00:13:32 UTC
From: willcoele@ameritech.net
Topic: 545  Message: 545

I was able to find a control code to execute commands via the 8925 serial port #9.

When you send a Control "[" (left bracket) using a common terminal program the 8924 will send back "SC-" I tested this using the terminal emulator in the BTS software and I found that if you press letter key after the control code, the 8924 will respond to a command. For example, lets call Control Left Bracket "CLB"

CLB A Displays the message screen
CLB a Displays the RX Test screen
CLB E Starts the screen capture
CLB e Displays the Test Screen.

If you use Hyperterm, you can setup "Hot Keys" control the 8924 remotely but I don't have time to log check every command and I don't think there's any documentation from Agilent. If your interested, you'll have to figure it out yourself. When time permits, I'll work on a Visual Basic, GUI program.

# 546. Re: [hp8924] Controlling the 8924 via serial port

Yahoo group: hp8924
Date: 2012-01-15 01:04:20 UTC
From: Tim
Topic: 545  Message: 546

That sounds great! Do you need a null modem between the 8924 & the PC, or just a straight cable?

Tim

On 1/14/2012 6:13 PM, willcoele@... wrote:

I was able to find a control code to execute commands via the 8925 serial port #9.

When you send a Control "[" (left bracket) using a common terminal program the 8924 will send back "SC-" I tested this using the terminal emulator in the BTS software and I found that if you press letter key after the control code, the 8924 will respond to a command. For example, lets call Control Left Bracket "CLB"

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# 547. Re: [hp8924] Controlling the 8924 via serial port

Yahoo group: hp8924
Date: 2012-01-15 01:30:21 UTC
From: keith
Topic: 545  Message: 547

The command may be the same as if you were using the HPIB port. Its just that they come in via the serial port instead of the HPIB.
Keith

From: Tim
Sent: Sunday, January 15, 2012 2:04 PM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Controlling the 8924 via serial port

That sounds great! Do you need a null modem between the 8924 & the PC, or just a straight cable?

Tim

On 1/14/2012 6:13 PM, willcoele@... wrote:

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CLB A Displays the message screen
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If you use Hyperterm, you can setup "Hot Keys" control the 8924 remotely but I don't have time to log check every command and I don't think there's any documentation from Agilent. If your interested, you'll have to figure it out yourself. When time permits, I'll work on a Visual Basic, GUI program.

# 548. Re: Controlling the 8924 via serial port

Yahoo group: hp8924
Date: 2012-01-15 01:44:05 UTC
From: willcoele@ameritech.net
Topic: 545  Message: 548

Actually the HPIB commands require a syntac. The serial commands are one letter commands. For example the numbers 1 thru 10 is the same as pressing the user defined keys. Numbers are entered using CLB q thru p.

Connecting the serial cable is in the users manual.

--- In hp8924@yahoogroups.com, "keith" <oldmill@...> wrote:
>
> The command may be the same as if you were using the HPIB port. Its just that they come in via the serial port instead of the HPIB.
> Keith
>
> From: Tim
> Sent: Sunday, January 15, 2012 2:04 PM
> To: hp8924@yahoogroups.com
> Subject: Re: [hp8924] Controlling the 8924 via serial port
>
>
> That sounds great! Do you need a null modem between the 8924 & the PC, or just
> a straight cable?
>
> Tim
>
>
> On 1/14/2012 6:13 PM, willcoele@... wrote:
>
>
> I was able to find a control code to execute commands via the 8925 serial port #9.
>
> When you send a Control "[" (left bracket) using a common terminal program the 8924 will send back "SC-" I tested this using the terminal emulator in the BTS software and I found that if you press letter key after the control code, the 8924 will respond to a command. For example, lets call Control Left Bracket "CLB"
>
> CLB A Displays the message screen
> CLB a Displays the RX Test screen
> CLB E Starts the screen capture
> CLB e Displays the Test Screen.
>
> If you use Hyperterm, you can setup "Hot Keys" control the 8924 remotely but I don't have time to log check every command and I don't think there's any documentation from Agilent. If your interested, you'll have to figure it out yourself. When time permits, I'll work on a Visual Basic, GUI program.
>

# 549. RE: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

Yahoo group: hp8924
Date: 2012-01-15 05:54:29 UTC
From: Mike (WM4B)
Topic: 532  Message: 549

Got the new calibration data from the seller yesterday and got it uploaded. Seemed to go okay this time.

Tonight I was playing with the instrument and connected my signal generator to the -8924 Spectrum Analyzer input. With the signal generator set at 0 dBm, the Spectrum Analyzer showed about -13 dBm. I followed this up with a loopback test (-8924 duplex out to antenna in) and go pretty similar results. The delta tracks at about 13 dB regardless of the setting of the generator output or frequency. Several different cables were tried.

What the heck is going on here? I'm starting to feel pretty well hosed over this entire 'upgrade' deal. I'm about ready to put the old attenuator back in, but without calibration data for it, I'm still out of luck.

Have lost my mind?

73,

Mike

WM4B

> > >
> > > From: Mike (WM4B) <mwbesemer@>
> > > Subject: [hp8924] HP-8924C 60 Watt Upgrade from eBay
> > > To: hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>
<mailto:hp8924%40yahoogroups.com> <mailto:hp8924%40yahoogroups.com>
> > > Date: Sunday, January 8, 2012, 5:56 PM
> > >
> > > I installed the new attenuator from the eBay 60-watt upgrade kit
today, but
> > > can't seem to get the calibration data uploaded.
> > >
> > > When I go to the TESTS menu, and set the 'Load Test Procedure' to
'CARD' and
> > > the 'Select Procedure Filename', it appears that there is nothing on
the
> > > card. At the top of the screen, it says " Error 85 During Procedure
> > > Catalog"
> > >
> > > I've got message in to the eBay seller, but sure would like to get
this
> > > figured out so I can get the test set running again.
> > >
> > > 73,
> > >
> > > Mike

> > > WM4B
> > >
> >
>

# 550. Re: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

Yahoo group: hp8924
Date: 2012-01-15 06:00:07 UTC
From: keith
Topic: 532  Message: 550

What frequency did you test at? Was it above 30 Mhz?
Try testing at another frequency like 100 Mhz.

From: Mike (WM4B)
Sent: Sunday, January 15, 2012 6:54 PM
To: hp8924@yahoogroups.com
Subject: RE: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

Got the new calibration data from the seller yesterday and got it uploaded. Seemed to go okay this time.

Tonight I was playing with the instrument and connected my signal generator to the -8924 Spectrum Analyzer input. With the signal generator set at 0 dBm, the Spectrum Analyzer showed about -13 dBm. I followed this up with a loopback test (-8924 duplex out to antenna in) and go pretty similar results. The delta tracks at about 13 dB regardless of the setting of the generator output or frequency. Several different cables were tried.

What the heck is going on here? I’m starting to feel pretty well hosed over this entire ‘upgrade’ deal. I’m about ready to put the old attenuator back in, but without calibration data for it, I’m still out of luc k.

Have lost my mind?

73,

Mike

WM4B

> > >
> > > From: Mike (WM4B) <mwbesemer@>
> > > Subject: [hp8924] HP-8924C 60 Watt Upgrade from eBay
> > > To: mailto:hp8924%40yahoogroups.com <mailto:hp8924%40yahoogroups.com>
<mailto:hp8924%40yahoogroups.com>
> > > Date: Sunday, January 8, 2012, 5:56 PM
> > >
> > > I installed the new attenuator from the eBay 60-watt upgrade kit today, but
> > > can't seem to get the cali bration data uploaded.
> > >
> > > When I go to the TESTS menu, and set the 'Load Test Procedure' to 'CARD' and
> > > the 'Select Procedure Filename', it appears that there is nothing on the
> > > card. At the top of the screen, it says " Error 85 During Procedure
> > > Catalog"
> > >
> > > I've got message in to the eBay seller, but sure would like to get this
> > > figured out so I can get the test set running again.
> > >

> > > 73,
> > >
> > > Mike
> > > WM4B
> > >
> >
>

# 551. RE: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

Yahoo group: hp8924
Date: 2012-01-15 14:54:28 UTC
From: Mike (WM4B)
Topic: 532  Message: 551

100 MHZ, 450 MHz and 850 MHz.

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of keith
Sent: Sunday, January 15, 2012 1:00 AM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

What frequency did you test at? Was it above 30 Mhz?

Try testing at another frequency like 100 Mhz.

From: Mike (WM4B) <mailto:mwbesemer@...>

Sent: Sunday, January 15, 2012 6:54 PM

To: hp8924@yahoogroups.com

Subject: RE: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

Got the new calibration data from the seller yesterday and got it uploaded. Seemed to go okay this time.

Tonight I was playing with the instrument and connected my signal generator to the -8924 Spectrum Analyzer input. With the signal generator set at 0 dBm, the Spectrum Analyzer showed about -13 dBm. I followed this up with a loopback test (-8924 duplex out to antenna in) and go pretty similar results. The delta tracks at about 13 dB regardless of the setting of the generator output or frequency. Several different cables were tried.

What the heck is going on here? I’m starting to feel pretty well hosed over this entire ‘upgrade’ deal. I’m about ready to put the old attenuator back in, but without calibration data for it, I’m still out of luc k.

Have lost my mind?

73,

Mike

WM4B

> > >
> > > From: Mike (WM4B) <mwbesemer@>
> > > Subject: [hp8924] HP-8924C 60 Watt Upgrade from eBay
> > > To: mailto:hp8924%40yahoogroups.com <mailto:hp8924%40yahoogroups.com>
<mailto:hp8924%40yahoogroups.com>
> > > Date: Sunday, January 8, 2012, 5:56 PM
> > >
> > > I installed the new attenuator from the eBay 60-watt upgrade kit today, but
> > > can't seem to get the cali bration data uploaded.

> > >
> > > When I go to the TESTS menu, and set the 'Load Test Procedure' to 'CARD' and
> > > the 'Select Procedure Filename', it appears that there is nothing on the
> > > card. At the top of the screen, it says " Error 85 During Procedure
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> > >
> > > I've got message in to the eBay seller, but sure would like to get this
> > > figured out so I can get the test set running again.
> > >
> > > 73,
> > >
> > > Mike
> > > WM4B
> > >
> >
>

# 552. Re: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

Yahoo group: hp8924
Date: 2012-01-15 16:02:24 UTC
From: Tim
Topic: 532  Message: 552

Mike - When you put a 'real' signal into it (like from a handheld or something), does it correctly read the power?

I have a feeling that it won't, meaning the wrong calibration data is in the box.

Until you get the right data in the box, you can use the 'fudge factor' entry. (I can't remember where it is, but allows you to use external attenuators & still have the box read correctly).

TIm W5FN

On 1/15/2012 8:54 AM, Mike (WM4B) wrote:

100 MHZ, 450 MHz and 850 MHz.

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of keith
Sent: Sunday, January 15, 2012 1:00 AM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

What frequency did you test at? Was it above 30 Mhz?

Try testing at another frequency like 100 Mhz.

From: Mike (WM4B)

Sent: Sunday, January 15, 2012 6:54 PM

To: hp8924@yahoogroups.com

Subject: RE: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

Got the new calibration data from the seller yesterday and got it uploaded. Seemed to go okay this time.

Tonight I was playing with the instrument and connected my signal generator to the -8924 Spectrum Analyzer input. With the signal generator set at 0 dBm, the Spectrum Analyzer showed about -13 dBm. I followed this up with a loopback test (-8924 duplex out to antenna in) and go pretty similar results. The delta tracks at about 13 dB regardless of the setting of the generator output or frequency. Several different cables were tried.

What the heck is going on here? I’m starting to feel pretty well hosed over this entire ‘upgrade’ deal. I’m about ready to put the old attenuator back in, but without calibration data for it, I’m still out of luc k.

Have lost my mind?

73,

Mike

WM4B

> > >
> > > From: Mike (WM4B)
> > > Subject: [hp8924] HP-8924C 60 Watt Upgrade from eBay
> > > To: mailto:hp8924%40yahoogroups.com <mailto:hp8924%40yahoogroups.com>
<mailto:hp8924%40yahoogroups.com>
> > > Date: Sunday, January 8, 2012, 5:56 PM
> > >
> > > I installed the new attenuator from the eBay 60-watt upgrade kit today, but
> > > can't seem to get the cali bration data uploaded.
> > >
> > > When I go to the TESTS menu, and set the 'Load Test Procedure' to 'CARD' and
> > > the 'Select Procedure Filename', it appears that there is nothing on the
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> > > I've got message in to the eBay seller, but sure would like to get this
> > > figured out so I can get the test set running again.
> > >
> > > 73,
> > >
> > > Mike
> > > WM4B
> > >
> >
>

# 553. Re: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

Yahoo group: hp8924
Date: 2012-01-15 17:53:52 UTC
From: tleather1@gmail.com
Topic: 532  Message: 553

In the file section there is the cal file and the sw to read write to a pcmcia card

Also you need to change switch 1 to off on the main board (right side of the test set dip switches ) to load cal data .

I just installed 100 w upgrade and worked fine .
Read the note for the cal data file you need to change file name

When you go to the card there is only 1 file on it DNLOADCAL some thing like that

You can email me @ tleaher1@yahoo.com
Sent from my BlackBerry® smartphone with Nextel Direct Connect

-----Original Message-----
From: Tim <tim@utopiaedesign.com>
Sender: hp8924@yahoogroups.com
Date: Sun, 15 Jan 2012 10:02:24
To: <hp8924@yahoogroups.com>
Reply-To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

Mike - When you put a 'real' signal into it (like from a handheld or something), does it correctly read the power?

I have a feeling that it won't, meaning the wrong calibration data is in the box.

Until you get the right data in the box, you can use the 'fudge factor' entry.  (I can't remember where it is, but allows you to use external attenuators & still have the box read correctly).

TIm W5FN

On 1/15/2012 8:54 AM, Mike (WM4B) wrote:

100 MHZ, 450 MHz and 850 MHz.

From: hp8924@yahoogroups.com <mailto:hp8924@yahoogroups.com>
[mailto:hp8924@yahoogroups.com] On Behalf Of keith
Sent: Sunday, January 15, 2012 1:00 AM
To: hp8924@yahoogroups.com <mailto:hp8924@yahoogroups.com>
Subject: Re: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

What frequency did you test at? Was it above 30 Mhz?

Try testing at another frequency like 100 Mhz.

From: Mike
(WM4B) <mailto:mwbesemer@cox.net>

Sent: Sunday, January 15, 2012 6:54 PM

To: hp8924@yahoogroups.com <mailto:hp8924@yahoogroups.com>

Subject: RE: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

Got the new calibration data from the seller yesterday and got it uploaded. Seemed to go okay this time.
Tonight I was playing with the instrument and connected my signal generator to the -8924 Spectrum Analyzer input. With the signal generator set at 0 dBm, the Spectrum Analyzer showed about -13 dBm. I followed this up with a loopback test (-8924 duplex out to antenna in) and go pretty similar results. The delta tracks at about 13 dB regardless of the setting of the generator output or frequency. Several different cables were tried.
What the heck is going on here? I'm starting to feel pretty well hosed over this entire 'upgrade' deal. I'm about ready to put the old attenuator back in, but without calibration data for it, I'm still out of luc k.
Have lost my mind?
73,
Mike
WM4B

> > >
> > > From: Mike (WM4B) <mwbesemer@>
> > > Subject: [hp8924] HP-8924C 60 Watt Upgrade from eBay
> > > To: mailto:hp8924%40yahoogroups.com <mailto:hp8924%40yahoogroups.com>
<mailto:hp8924%40yahoogroups.com>
> > > Date: Sunday, January 8, 2012, 5:56 PM
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> > > I've got message in to the eBay seller, but sure would like to get this
> > > figured out so I can get the test set running again.
> > >
> > > 73,
> > >
> > > Mike
> > > WM4B
> > >
> >
>

# 554. RE: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

Yahoo group: hp8924
Date: 2012-01-15 20:01:04 UTC
From: Mike (WM4B)
Topic: 532  Message: 554

Tim,

Comparing to my el-cheapo MFJ meter (which is all that I have handy right now), I see a difference of about 1 dB. I suspect the MFJ is the guilty party there.

73,

Mike

WM4B

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Tim
Sent: Sunday, January 15, 2012 11:02 AM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

Mike - When you put a 'real' signal into it (like from a handheld or something), does it correctly read the power?

I have a feeling that it won't, meaning the wrong calibration data is in the box.

Until you get the right data in the box, you can use the 'fudge factor' entry. (I can't remember where it is, but allows you to use external attenuators & still have the box read correctly).

TIm W5FN

On 1/15/2012 8:54 AM, Mike (WM4B) wrote:

100 MHZ, 450 MHz and 850 MHz.

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of keith
Sent: Sunday, January 15, 2012 1:00 AM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

What frequency did you test at? Was it above 30 Mhz?

Try testing at another frequency like 100 Mhz.

From: Mike (WM4B) <mailto:mwbesemer@...>

Sent: Sunday, January 15, 2012 6:54 PM

To: hp8924@yahoogroups.com

Subject: RE: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

Got the new calibration data from the seller yesterday and got it uploaded. Seemed to go okay this time.

Tonight I was playing with the instrument and connected my signal generator to the -8924 Spectrum Analyzer input. With the signal generator set at 0 dBm, the Spectrum Analyzer showed about -13 dBm. I followed this up with a loopback test (-8924 duplex out to antenna in) and go pretty similar results. The delta tracks at about 13 dB regardless of the setting of the generator output or frequency. Several different cables were tried.

What the heck is going on here? I’m starting to feel pretty well hosed over this entire ‘upgrade’ deal. I’m about ready to put the old attenuator back in, but without calibration data for it, I’m still out of luc k.

Have lost my mind?

73,

Mike

WM4B

> > >
> > > From: Mike (WM4B) <mwbesemer@>
> > > Subject: [hp8924] HP-8924C 60 Watt Upgrade from eBay
> > > To: mailto:hp8924%40yahoogroups.com <mailto:hp8924%40yahoogroups.com>
<mailto:hp8924%40yahoogroups.com>
> > > Date: Sunday, January 8, 2012, 5:56 PM
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> > > I've got message in to the eBay seller, but sure would like to get this
> > > figured out so I can get the test set running again.
> > >
> > > 73,
> > >
> > > Mike
> > > WM4B
> > >
> >
>

# 555. Re: HP-8924C 60 Watt Upgrade from eBay

Yahoo group: hp8924
Date: 2012-01-15 20:12:45 UTC
From: ki0eo@hotmail.com
Topic: 532  Message: 555

Mike,
Just a heads up.
If you plan on returning the PCMCIA card to get a deposit back you might want to think twice.
I returned mine, just to recover some of my cost, a few weeks ago and have not heard anything from rfe_toys.
Not sure what's up. He will not respond to any emails also.
Just an FYI.

Other than that my CAL worked fine.
Just slightly off from my meter, an el-cheapo ham job :)
I suspect the meter.

Don KI0EO

--- In hp8924@yahoogroups.com, "Mike \(WM4B\)" <mwbesemer@...> wrote:
>
> Tim,
>
>
>
> Comparing to my el-cheapo MFJ meter (which is all that I have handy right now), I see a difference of about 1 dB. I suspect the MFJ is the guilty party there.
>
>
>
> 73,
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>
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> Mike
>
> WM4B
>
>
>
>
>
>
>
> From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Tim
> Sent: Sunday, January 15, 2012 11:02 AM
> To: hp8924@yahoogroups.com
> Subject: Re: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay
>

>
>
>
>
> Mike - When you put a 'real' signal into it (like from a handheld or something),
> does it correctly read the power?
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> I have a feeling that it won't, meaning the wrong calibration data is in the box.
>
> Until you get the right data in the box, you can use the 'fudge factor' entry. (I
> can't remember where it is, but allows you to use external attenuators & still
> have the box read correctly).
>
>
>
> TIm W5FN
>
> On 1/15/2012 8:54 AM, Mike (WM4B) wrote:
>
>
>
> 100 MHZ, 450 MHz and 850 MHz.
>
>
>
>
>
>
>
> From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of keith
> Sent: Sunday, January 15, 2012 1:00 AM
> To: hp8924@yahoogroups.com
> Subject: Re: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay
>
>
>
>
>
> What frequency did you test at? Was it above 30 Mhz?
>
> Try testing at another frequency like 100 Mhz.
>
>
>
>
>
> From: Mike (WM4B) <mailto:mwbesemer@...>
>
> Sent: Sunday, January 15, 2012 6:54 PM

>
> To: hp8924@yahoogroups.com
>
> Subject: RE: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay
>
>
>
>
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> Got the new calibration data from the seller yesterday and got it uploaded. Seemed to go okay this time.
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> What the heck is going on here? Iâ□□m starting to feel pretty well hosed over this entire â□□upgradeâ□□ deal. Iâ□□m about ready to put the old attenuator back in, but without calibration data for it, Iâ□□m still out of luc k.
>
> Have lost my mind?
>
> 73,
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> Mike
>
> WM4B
>
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> > > >
> > > > From: Mike (WM4B) <mwbesemer@>
> > > > Subject: [hp8924] HP-8924C 60 Watt Upgrade from eBay
> > > > To: mailto:hp8924%40yahoogroups.com <mailto:hp8924%40yahoogroups.com>
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> > > > Date: Sunday, January 8, 2012, 5:56 PM
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> > > >
> > > > 73,
> > > >
> > > > Mike

> > > > WM4B
> > > >
> > >
> >
>

# 556. RE: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

Yahoo group: hp8924
Date: 2012-01-15 20:19:18 UTC
From: Mike (WM4B)
Topic: 532  Message: 556

Hmmm… when I uploaded the CAL data that came with the attenuator upgrade, there was no mention of changing the DIP Switch.

I checked the calibration of the power meter on the RF In/Out Port. It seems fairly close – about 1 dB different than the cruddy MFJ meter I compared it to.

I also went to the TESTS menu and ran the test for the Spectrum Analyzer; I fails in three places – exactly where you'd think it would fail based on what I'm seeing. I have to wonder if either the CAL data I uploaded was incorrect or corrupted or did not upload properly.

I see the files you mentioned; which attenuator is used for which version? I assume that 6 dB is for the 3-watt version, 14 dB is for the 60 watt version and 16 dB is for the 100 watt version – is that correct? I also see the program to write the files to the memory card, but I'm not sure the instructions makes sense to me. I'd have to look around to see if I even have a computer that has a PCMCIA port anymore.

Do ya'll think I need to re-upload the CAL data? Unfortunately, the card is already on the way back to the eBay vendor, and I don't know if I trust it at this point anyway. Does anyone have the 60 Watt CAL data on a PCMCIA card I can borrow? I'd also like to get a copy of the 3-watt CAL data in case I need to go back to the original attenuator. I'd be happy to pay for shipping and your trouble.

73,

Mike
WM4B

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of tleather1@...
Sent: Sunday, January 15, 2012 12:54 PM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

In the file section there is the cal file and the sw to read write to a pcmcia card

Also you need to change switch 1 to off on the main board (right side of the test set dip switches ) to load cal data .

I just installed 100 w upgrade and worked fine .
Read the note for the cal data file you need to change file name

When you go to the card there is only 1 file on it DNLOADCAL some thing like that

You can email me @ tleaher1@...
Sent from my BlackBerry® smartphone with Nextel Direct Connect

---

From: Tim <tim@...>
Sender: hp8924@yahoogroups.com
Date: Sun, 15 Jan 2012 10:02:24 -0600

To: <hp8924@yahoogroups.com>
ReplyTo: hp8924@yahoogroups.com
Subject: Re: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

Mike - When you put a 'real' signal into it (like from a handheld or something), does it correctly read the power?

I have a feeling that it won't, meaning the wrong calibration data is in the box.

Until you get the right data in the box, you can use the 'fudge factor' entry. (I can't remember where it is, but allows you to use external attenuators & still have the box read correctly).

TIm W5FN

On 1/15/2012 8:54 AM, Mike (WM4B) wrote:

100 MHZ, 450 MHz and 850 MHz.

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of keith
Sent: Sunday, January 15, 2012 1:00 AM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

What frequency did you test at? Was it above 30 Mhz?
Try testing at another frequency like 100 Mhz.

From: Mike (WM4B)
Sent: Sunday, January 15, 2012 6:54 PM
To: hp8924@yahoogroups.com
Subject: RE: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

Got the new calibration data from the seller yesterday and got it uploaded. Seemed to go okay this time.
Tonight I was playing with the instrument and connected my signal generator to the -8924 Spectrum Analyzer input. With the signal generator set at 0 dBm, the Spectrum Analyzer showed about -13 dBm. I followed this up with a loopback test (-8924 duplex out to antenna in) and go pretty similar results. The delta tracks at about 13 dB regardless of the setting of the generator output or frequency. Several different cables were tried.
What the heck is going on here? I’m starting to feel pretty well hosed over this entire ‘upgrade’ deal. I’m about ready to put the old attenuator back in, but without calibration data for it, I’m still out of luc k.
Have lost my mind?
73,
Mike
WM4B

> > >
> > > From: Mike (WM4B) <mwbesemer@>
> > > Subject: [hp8924] HP-8924C 60 Watt Upgrade from eBay
> > > To: mailto:hp8924%40yahoogroups.com <mailto:hp8924%40yahoogroups.com>
<mailto:hp8924%40yahoogroups.com>
> > > Date: Sunday, January 8, 2012, 5:56 PM

> > >
> > > I installed the new attenuator from the eBay 60-watt upgrade kit today, but
> > > can't seem to get the cali bration data uploaded.
> > >
> > > When I go to the TESTS menu, and set the 'Load Test Procedure' to 'CARD' and
> > > the 'Select Procedure Filename', it appears that there is nothing on the
> > > card. At the top of the screen, it says " Error 85 During Procedure
> > > Catalog"
> > >
> > > I've got message in to the eBay seller, but sure would like to get this
> > > figured out so I can get the test set running again.
> > >
> > > 73,
> > >
> > > Mike
> > > WM4B
> > >
> >
>

# 557. RE: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

Yahoo group: hp8924
Date: 2012-01-15 20:33:54 UTC
From: Mike (WM4B)
Topic: 532  Message: 557

Ho goodie… MORE good news about the project from hell!

Thanks for the head’s-up, Don.

73,

Mike

WM4B

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of ki0eo@...
Sent: Sunday, January 15, 2012 3:13 PM
To: hp8924@yahoogroups.com
Subject: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

Mike,
Just a heads up.
If you plan on returning the PCMCIA card to get a deposit back you might want to think twice.
I returned mine, just to recover some of my cost, a few weeks ago and have not heard anything from rfe_toys.
Not sure what's up. He will not respond to any emails also.
Just an FYI.

Other than that my CAL worked fine.
Just slightly off from my meter, an el-cheapo ham job :)
I suspect the meter.

Don KI0EO

--- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com> , "Mike \(WM4B\)" <mwbesemer@...> wrote:
>
> Tim,
>
>
>
> Comparing to my el-cheapo MFJ meter (which is all that I have handy right now), I see a difference of about 1 dB. I suspect the MFJ is the guilty party there.
>
>
>
> 73,
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>
>
> Mike

>
> WM4B
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>
> From: hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>
[mailto:hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com> ] On Behalf Of Tim
> Sent: Sunday, January 15, 2012 11:02 AM
> To: hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>
> Subject: Re: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay
>
>
>
>
>
> Mike - When you put a 'real' signal into it (like from a handheld or something),
> does it correctly read the power?
>
> I have a feeling that it won't, meaning the wrong calibration data is in the box.
>
> Until you get the right data in the box, you can use the 'fudge factor' entry. (I
> can't remember where it is, but allows you to use external attenuators & still
> have the box read correctly).
>
>
>
> TIm W5FN
>
> On 1/15/2012 8:54 AM, Mike (WM4B) wrote:
>
>
>
> 100 MHZ, 450 MHz and 850 MHz.
>
>
>
>
>
>
>
> From: hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>
[mailto:hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com> ] On Behalf Of keith
> Sent: Sunday, January 15, 2012 1:00 AM
> To: hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>
> Subject: Re: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay
>

>
>
>
>
> What frequency did you test at? Was it above 30 Mhz?
>
> Try testing at another frequency like 100 Mhz.
>
>
>
>
>
> From: Mike (WM4B) <mailto:mwbesemer@...>
>
> Sent: Sunday, January 15, 2012 6:54 PM
>
> To: hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>
>
> Subject: RE: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay
>
>
>
>
>
> Got the new calibration data from the seller yesterday and got it uploaded. Seemed to go okay this time.
>
> Tonight I was playing with the instrument and connected my signal generator to the -8924 Spectrum Analyzer input. With the signal generator set at 0 dBm, the Spectrum Analyzer showed about -13 dBm. I followed this up with a loopback test (-8924 duplex out to antenna in) and go pretty similar results. The delta tracks at about 13 dB regardless of the setting of the generator output or frequency. Several different cables were tried.
>
> What the heck is going on here? Iâ€™m starting to feel pretty well hosed over this entire â€˜upgradeâ€™ deal. Iâ€™m about ready to put the old attenuator back in, but without calibration data for it, Iâ€™m still out of luc k.
>
> Have lost my mind?
>
> 73,
>
> Mike
>
> WM4B
>
>
> > > >
> > > > From: Mike (WM4B) <mwbesemer@>
> > > > Subject: [hp8924] HP-8924C 60 Watt Upgrade from eBay
> > > > To: mailto:hp8924%40yahoogroups.com <mailto:hp8924%40yahoogroups.com>

<mailto:hp8924%40yahoogroups.com>
> > > > Date: Sunday, January 8, 2012, 5:56 PM
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> > > > I installed the new attenuator from the eBay 60-watt upgrade kit today, but
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> > > >
> > > > I've got message in to the eBay seller, but sure would like to get this
> > > > figured out so I can get the test set running again.
> > > >
> > > > 73,
> > > >
> > > > Mike
> > > > WM4B
> > > >
> > >
> >
>

# 558. New file uploaded to hp8924

Yahoo group: hp8924
Date: 2012-01-15 21:04:27 UTC
From: hp8924@yahoogroups.com
Topic: 31  Message: 558

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hp8924
group.

File : /8924_Control_Codes.pdf
Uploaded by : willcoele@... <willcoele@...>
Description : 8924 Serial Port Control Codes

You can access this file at the URL:
http://groups.yahoo.com/group/hp8924/files/8924_Control_Codes.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

willcoele@... <willcoele@...>

# 559. RE: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

Yahoo group: hp8924
Date: 2012-01-15 21:26:08 UTC
From: tim@utopiaedesign.com
Topic: 532  Message: 559

When I did my upgrade, there was no mention of dip switch changing either. The unit measures input power correctly... Guess I ought to check the other input as well!

Tim W5FN

-----Original Message-----
From: tleather1@gmail.com
Sent: Sunday, January 15, 2012 11:53 AM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

In the file section there is the cal file and the sw to read write to a pcmcia card

Also you need to change switch 1 to off on the main board (right side of the test set dip switches ) to load cal data .

I just installed 100 w upgrade and worked fine .
Read the note for the cal data file you need to change file name

When you go to the card there is only 1 file on it DNLOADCAL some thing like that

You can email me @ tleaher1@...
Sent from my BlackBerry® smartphone with Nextel Direct Connect
From: Tim <tim@utopiaedesign.com>
Sender: hp8924@yahoogroups.com
Date: Sun, 15 Jan 2012 10:02:24 -0600
To: <hp8924@yahoogroups.com>
ReplyTo: hp8924@yahoogroups.com
Subject: Re: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

Mike - When you put a 'real' signal into it (like from a handheld or something), does it correctly read the power?

I have a feeling that it won't, meaning the wrong calibration data is in the box.

Until you get the right data in the box, you can use the 'fudge factor' entry.  (I can't remember where it is, but allows you to use external attenuators & still have the box read correctly).

TIm W5FN

On 1/15/2012 8:54 AM, Mike (WM4B) wrote:

100 MHZ, 450 MHz and 850 MHz.

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of keith
Sent: Sunday, January 15, 2012 1:00 AM
To: hp8924@yahoogroups.com

Subject: Re: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

What frequency did you test at? Was it above 30 Mhz?
Try testing at another frequency like 100 Mhz.

From: Mike (WM4B)
Sent: Sunday, January 15, 2012 6:54 PM
To: hp8924@yahoogroups.com
Subject: RE: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

Got the new calibration data from the seller yesterday and got it uploaded. Seemed to go okay this time.
Tonight I was playing with the instrument and connected my signal generator to the -8924 Spectrum Analyzer input. With the signal generator set at 0 dBm, the Spectrum Analyzer showed about -13 dBm. I followed this up with a loopback test (-8924 duplex out to antenna in) and go pretty similar results. The delta tracks at about 13 dB regardless of the setting of the generator output or frequency. Several different cables were tried.
What the heck is going on here? I'm starting to feel pretty well hosed over this entire 'upgrade' deal. I'm about ready to put the old attenuator back in, but without calibration data for it, I'm still out of luc k.
Have lost my mind?
73,
Mike
WM4B

> > >
> > > From: Mike (WM4B) <mwbesemer@>
> > > Subject: [hp8924] HP-8924C 60 Watt Upgrade from eBay
> > > To: mailto:hp8924%40yahoogroups.com <mailto:hp8924%40yahoogroups.com>
<mailto:hp8924%40yahoogroups.com>
> > > Date: Sunday, January 8, 2012, 5:56 PM
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> > > I've got message in to the eBay seller, but sure would like to get this
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> > > 73,
> > >
> > > Mike
> > > WM4B
> > >
> >
>

Reply to sender | Reply to group | Reply via web post | Start a New TopicMessages in this topic (18)
Recent Activity:

[The entire original message is not included]

# 560. RE: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

Yahoo group: hp8924
Date: 2012-01-15 21:31:37 UTC
From: Mike (WM4B)
Topic: 532  Message: 560

Tim,

Just for giggles, do a loopback test to the Spectrum Analyzer; Duplex Out to Antenna In.

73,

Mike
WM4B

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of tim@...
Sent: Sunday, January 15, 2012 4:26 PM
To: hp8924@yahoogroups.com
Subject: RE: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

When I did my upgrade, there was no mention of dip switch changing either. The unit measures input power correctly... Guess I ought to check the other input as well!

Tim W5FN

---
From: tleather1@...
Sent: Sunday, January 15, 2012 11:53 AM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

In the file section there is the cal file and the sw to read write to a pcmcia card

Also you need to change switch 1 to off on the main board (right side of the test set dip switches ) to load cal data .

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Read the note for the cal data file you need to change file name

When you go to the card there is only 1 file on it DNLOADCAL some thing like that

You can email me @ tleaher1@...
Sent from my BlackBerry® smartphone with Nextel Direct Connect

---
From: Tim <tim@...>
Sender: hp8924@yahoogroups.com
Date: Sun, 15 Jan 2012 10:02:24 -0600
To: <hp8924@yahoogroups.com>
ReplyTo: hp8924@yahoogroups.com
Subject: Re: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

Mike - When you put a 'real' signal into it (like from a handheld or something), does it correctly read the power?

I have a feeling that it won't, meaning the wrong calibration data is in the box.

Until you get the right data in the box, you can use the 'fudge factor' entry. (I can't remember where it is, but allows you to use external attenuators & still have the box read correctly).

TIm W5FN

On 1/15/2012 8:54 AM, Mike (WM4B) wrote:

100 MHZ, 450 MHz and 850 MHz.

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of keith
Sent: Sunday, January 15, 2012 1:00 AM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

What frequency did you test at? Was it above 30 Mhz?
Try testing at another frequency like 100 Mhz.

From: Mike (WM4B)
Sent: Sunday, January 15, 2012 6:54 PM
To: hp8924@yahoogroups.com
Subject: RE: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

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What the heck is going on here? I’m starting to feel pretty well hosed over this entire ‘upgrade’ deal. I’m about ready to put the old attenuator back in, but without calibration data for it, I’m still out of luc k.
Have lost my mind?
73,
Mike
WM4B

> > >
> > > From: Mike (WM4B) <mwbesemer@>
> > > Subject: [hp8924] HP-8924C 60 Watt Upgrade from eBay
> > > To: mailto:hp8924%40yahoogroups.com <mailto:hp8924%40yahoogroups.com>
<mailto:hp8924%40yahoogroups.com>
> > > Date: Sunday, January 8, 2012, 5:56 PM
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> > > I installed the new attenuator from the eBay 60-watt upgrade kit today, but
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> > >
> > > When I go to the TESTS menu, and set the 'Load Test Procedure' to 'CARD' and
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> > > 73,
> > >
> > > Mike
> > > WM4B
> > >
> >
>

Reply to sender | Reply to group | Reply via web post | Start a New Topic
Messages in this topic (18)
RECENT ACTIVITY:
•

[The entire original message is not included]

# 561. RE: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

Yahoo group: hp8924
Date: 2012-01-15 21:38:54 UTC
From: tim@utopiaedesign.com
Topic: 532  Message: 561

Hi Mike, I'll do that when I get home.

Sent from my HTC Tilt™ 2, a Windows® phone from AT&T

-----Original Message-----
From: Mike (WM4B) <mwbesemer@...>
Sent: Sunday, January 15, 2012 3:31 PM
To: hp8924@yahoogroups.com
Subject: RE: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

Tim,

Just for giggles, do a loopback test to the Spectrum Analyzer; Duplex Out to Antenna In.

73,

Mike
WM4B

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of tim@...
Sent: Sunday, January 15, 2012 4:26 PM
To: hp8924@yahoogroups.com
Subject: RE: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

When I did my upgrade, there was no mention of dip switch changing either. The unit measures input power correctly... Guess I ought to check the other input as well!

Tim W5FN

_____
From: tleather1@...
Sent: Sunday, January 15, 2012 11:53 AM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

In the file section there is the cal file and the sw to read write to a pcmcia card

Also you need to change switch 1 to off on the main board (right side of the test set dip switches ) to load cal data .

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When you go to the card there is only 1 file on it DNLOADCAL some thing like that

You can email me @ tleaher1@...
Sent from my BlackBerry® smartphone with Nextel Direct Connect

_____
From: Tim <tim@...>

Sender: hp8924@yahoogroups.com
Date: Sun, 15 Jan 2012 10:02:24 -0600
To: <hp8924@yahoogroups.com>
ReplyTo: hp8924@yahoogroups.com
Subject: Re: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

Mike - When you put a 'real' signal into it (like from a handheld or something), does it correctly read the power?

I have a feeling that it won't, meaning the wrong calibration data is in the box.

Until you get the right data in the box, you can use the 'fudge factor' entry. (I can't remember where it is, but allows you to use external attenuators & still have the box read correctly).

TIm W5FN

On 1/15/2012 8:54 AM, Mike (WM4B) wrote:

100 MHZ, 450 MHz and 850 MHz.

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of keith
Sent: Sunday, January 15, 2012 1:00 AM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

What frequency did you test at? Was it above 30 Mhz?
Try testing at another frequency like 100 Mhz.

From: Mike (WM4B)
Sent: Sunday, January 15, 2012 6:54 PM
To: hp8924@yahoogroups.com
Subject: RE: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

Got the new calibration data from the seller yesterday and got it uploaded. Seemed to go okay this time.
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What the heck is going on here? I’m starting to feel pretty well hosed over this entire ‘upgrade’ deal. I’m about ready to put the old attenuator back in, but without calibration data for it, I’m still out of luc k.
Have lost my mind?
73,
Mike
WM4B

> > >
> > > From: Mike (WM4B) <mwbesemer@>
> > > Subject: [hp8924] HP-8924C 60 Watt Upgrade from eBay
> > > To: mailto:hp8924%40yahoogroups.com <mailto:hp8924%40yahoogroups.com>

<mailto:hp8924%40yahoogroups.com>
> > > Date: Sunday, January 8, 2012, 5:56 PM
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> > > figured out so I can get the test set running again.
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> > > 73,
> > >
> > > Mike
> > > WM4B
> > >
> >
>

Reply to sender | Reply to group | Reply via web post | Start a New Topic
Messages in this topic (18)
RECENT ACTIVITY:
•

[The entire original message is not included]

# 562. Re: New file uploaded to hp8924

Yahoo group: hp8924
Date: 2012-01-15 22:15:32 UTC
From: willcoele@ameritech.net
Topic: 31  Message: 562

I found more control codes and uploaded a new file. 8924_Control_Codes.pdf

--- In hp8924@yahoogroups.com, hp8924@yahoogroups.com wrote:
>
>
> Hello,
>
> This email message is a notification to let you know that
> a file has been uploaded to the Files area of the hp8924
> group.
>
> File : /8924_Control_Codes.pdf
> Uploaded by : willcoele@... <willcoele@...>
> Description : 8924 Serial Port Control Codes
>
> You can access this file at the URL:
> http://groups.yahoo.com/group/hp8924/files/8924_Control_Codes.pdf
>
> To learn more about file sharing for your group, please visit:
> http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
> Regards,
>
> willcoele@... <willcoele@...>
>

# 563. Re: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

Yahoo group: hp8924
Date: 2012-01-15 22:39:15 UTC
From: Tim
Topic: 532  Message: 563

Hey Mike,

Setup RX test for 0dBm, set TX test for 0dBm,
hit Spectrum analyzer, and the tip is at 0dBm
(with jumper in place from Duplex out to RF in).

Sorry,

Tim

# 564. Re: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

Yahoo group: hp8924
Date: 2012-01-15 22:41:59 UTC
From: Tim
Topic: 532  Message: 564

On the Aux screen, make sure that
A ONLY is selected... the A-B will
skew things. (you probably already
know that).

Tim

# 565. New file uploaded to hp8924

Yahoo group: hp8924
Date: 2012-01-15 22:43:34 UTC
From: hp8924@yahoogroups.com
Topic: 31  Message: 565

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hp8924
group.

File : /8924_Control_Codes.pdf
Uploaded by : willcoele@... <willcoele@...>
Description : 8924 Serial Port Control Codes

You can access this file at the URL:
http://groups.yahoo.com/group/hp8924/files/8924_Control_Codes.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

willcoele@... <willcoele@...>

# 566. Re: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

Yahoo group: hp8924
Date: 2012-01-15 22:45:13 UTC
From: Ralph Mowery
Topic: 532  Message: 566

I returned a card about a month ago after an upgrade and while I did not hear from RFtoys, I did see a credit back on my master card.  Did you look at your statement ?

I may not have even looked at the paper statement as I can see it online almost as soon as a transaction is made on my master card.

--- On Sun, 1/15/12, ki0eo@... <ki0eo@...> wrote:

From: ki0eo@... <ki0eo@...>
Subject: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay
To: hp8924@yahoogroups.com
Date: Sunday, January 15, 2012, 3:12 PM

Mike,
Just a heads up.
If you plan on returning the PCMCIA card to get a deposit back you might want to think twice.
I returned mine, just to recover some of my cost, a few weeks ago and have not heard anything from rfe_toys.
Not sure what's up. He will not respond to any emails also.
Just an FYI.

Other than that my CAL worked fine.
Just slightly off from my meter, an el-cheapo ham job :)
I suspect the meter.

Don  KI0EO

---

# 567. Re: New file uploaded to hp8924

Yahoo group: hp8924
Date: 2012-01-15 22:46:50 UTC
From: willcoele@ameritech.net
Topic: 31  Message: 567

Instead of turing and pressing the control knob, you can enter text using the PC keyboard. Let's say you want to save a setup to a new filename. On the 8924 press SHIFT and then the RECALL button. Enter the file name by typing on your PC keyboard. Make sure that the Caps Lock is turned on.

I uploaded another update

--- In hp8924@yahoogroups.com, hp8924@yahoogroups.com wrote:
>
>
> Hello,
>
> This email message is a notification to let you know that
> a file has been uploaded to the Files area of the hp8924
> group.
>
> File : /8924_Control_Codes.pdf
> Uploaded by : willcoele@... <willcoele@...>
> Description : 8924 Serial Port Control Codes
>
> You can access this file at the URL:
> http://groups.yahoo.com/group/hp8924/files/8924_Control_Codes.pdf
>
> To learn more about file sharing for your group, please visit:
> http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
> Regards,
>
> willcoele@... <willcoele@...>
>

# 568. RE: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

Yahoo group: hp8924
Date: 2012-01-15 23:01:43 UTC
From: Mike (WM4B)
Topic: 532  Message: 568

Well, glad yours is okay, Tim!

73,

Mike

WM4B

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Tim
Sent: Sunday, January 15, 2012 5:39 PM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

Hey Mike,

Setup RX test for 0dBm, set TX test for 0dBm,
hit Spectrum analyzer, and the tip is at 0dBm
(with jumper in place from Duplex out to RF in).

Sorry,

Tim

# 569. Re: HP-8924C 60 Watt Upgrade from eBay

Yahoo group: hp8924
Date: 2012-01-15 23:26:13 UTC
From: ki0eo@hotmail.com
Topic: 532  Message: 569

I did mine without a dip switch change.

Don KI0EO

--- In hp8924@yahoogroups.com, <tim@...> wrote:
>
> When I did my upgrade, there was no mention of dip switch changing either. The unit measures input power correctly... Guess I ought to check the other input as well!
>
> Tim W5FN
>
> -----Original Message-----
> From: tleather1@...
> Sent: Sunday, January 15, 2012 11:53 AM
> To: hp8924@yahoogroups.com
> Subject: Re: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay
>
>
> In the file section there is the cal file and the sw to read write to a pcmcia card
>
> Also you need to change switch 1 to off on the main board (right side of the test set dip switches ) to load cal data .
>
> I just installed 100 w upgrade and worked fine .
> Read the note for the cal data file you need to change file name
>
> When you go to the card there is only 1 file on it DNLOADCAL some thing like that
>
> You can email me @ tleaher1@...
> Sent from my BlackBerryÂ® smartphone with Nextel Direct Connect
> From: Tim <tim@...>
> Sender: hp8924@yahoogroups.com
> Date: Sun, 15 Jan 2012 10:02:24 -0600
> To: <hp8924@yahoogroups.com>
> ReplyTo: hp8924@yahoogroups.com
> Subject: Re: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay
>
> Â
> Mike - When you put a 'real' signal into it (like from a handheld or something),
> does it correctly read the power?
>
> I have a feeling that it won't, meaning the wrong calibration data is in the box.
>
> Until you get the right data in the box, you can use the 'fudge factor' entry.Â  (I
> can't remember where it is, but allows you to use external attenuators & still

> have the box read correctly).
>
>
>
> TIm W5FN
>
> On 1/15/2012 8:54 AM, Mike (WM4B) wrote:
> Â
> 100 MHZ, 450 MHz and 850 MHz.
> Â
> Â
> Â
> From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of keith
> Sent: Sunday, January 15, 2012 1:00 AM
> To: hp8924@yahoogroups.com
> Subject: Re: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay
> Â
> Â
> What frequency did you test at? Was it above 30 Mhz?
> Try testing at another frequency like 100 Mhz.
> Â
> Â
> From: Mike (WM4B)
> Sent: Sunday, January 15, 2012 6:54 PM
> To: hp8924@yahoogroups.com
> Subject: RE: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay
> Â
> Â
> Got the new calibration data from the seller yesterday and got it uploaded.Â  Seemed to go okay this time.
> Tonight I was playing with the instrument and connected my signal generator to the -8924 Spectrum Analyzer input.Â  With the signal generator set at 0 dBm, the Spectrum Analyzer showed about -13 dBm.Â  I followed this up with a loopback test (-8924 duplex out to antenna in) and go pretty similar results.Â  The delta tracks at about 13 dB regardless of the setting of the generator output or frequency.Â  Several different cables were tried.
> What the heck is going on here?Â  Iâ□□m starting to feel pretty well hosed over this entire â□□upgradeâ□□ deal.Â  Iâ□□m about ready to put the old attenuator back in, but without calibration data for it, Iâ□□m still out of luc k.
> Have lost my mind?
> 73,
> Mike
> WM4B
>
> > > >
> > > > From: Mike (WM4B) <mwbesemer@>
> > > > Subject: [hp8924] HP-8924C 60 Watt Upgrade from eBay
> > > > To: mailto:hp8924%40yahoogroups.com <mailto:hp8924%40yahoogroups.com> <mailto:hp8924%40yahoogroups.com>
> > > > Date: Sunday, January 8, 2012, 5:56 PM
> > > >
> > > > I installed the new attenuator from the eBay 60-watt upgrade kit today, but

> > > > can't seem to get the cali bration data uploaded.
> > > >
> > > > When I go to the TESTS menu, and set the 'Load Test Procedure' to 'CARD' and
> > > > the 'Select Procedure Filename', it appears that there is nothing on the
> > > > card. At the top of the screen, it says " Error 85 During Procedure
> > > > Catalog"
> > > >
> > > > I've got message in to the eBay seller, but sure would like to get this
> > > > figured out so I can get the test set running again.
> > > >
> > > > 73,
> > > >
> > > > Mike
> > > > WM4B
> > > >
> > >
> >
>
> Reply to sender | Reply to group | Reply via web post | Start a New TopicMessages in this topic (18)
> Recent Activity:
>
>
> [The entire original message is not included]
>

# 570. Re: [hp8924] Re: New file uploaded to hp8924

Yahoo group: hp8924
Date: 2012-01-15 23:37:49 UTC
From: Tim
Topic: 31  Message: 570

Got all the connections made per the manual,

Went into <shift> I/O Config, and set up per
the recommendations in the manual.

No responses from the 8924.

Do I need to initiate anything on the 8924
before it will respond?

Thanks,

Tim

# 571. Re: New file uploaded to hp8924

Yahoo group: hp8924
Date: 2012-01-15 23:59:37 UTC
From: willcoele@ameritech.net
Topic: 31  Message: 571

I assume that in the serial settings you selected Instr and not Ibasic?

--- In hp8924@yahoogroups.com, Tim <tim@...> wrote:
>
> Got all the connections made per the manual,
>
> Went into <shift> I/O Config, and set up per
> the recommendations in the manual.
>
> No responses from the 8924.
>
> Do I need to initiate anything on the 8924
> before it will respond?
>
> Thanks,
>
> Tim
>

# 572. Re: [hp8924] Re: New file uploaded to hp8924

Yahoo group: hp8924
Date: 2012-01-16 00:09:16 UTC
From: Tim
Topic: 31  Message: 572

Hmm, that was it! Could have sworn that I changed it.

Anyhow, thanks!!! Now just gotta put in the right terminal
emulation mode so the screen upload will look right.

Thanks again!!

Tim

On 1/15/2012 5:59 PM, willcoele@... wrote:

I assume that in the serial settings you selected Instr and not Ibasic?

--- In hp8924@yahoogroups.com, Tim wrote:
>
> Got all the connections made per the manual,
>
> Went into I/O Config, and set up per
> the recommendations in the manual.
>
> No responses from the 8924.
>
> Do I need to initiate anything on the 8924
> before it will respond?
>
> Thanks,
>
> Tim
>

# 573. RE: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

Yahoo group: hp8924
Date: 2012-01-16 01:41:36 UTC
From: Thomas Leather
Topic: 532  Message: 573

On main io board there are 4 dip switches they lock the rom memory of the unit , the switch closes to the front of test set turn off ( change position ) re boot unit & continue with upgrade , the cal program will tell you to do this . If you didn't I don't think that cal was updated at all – you may get the right pwr reading??? . I did 100 watt upgrade .

Well I'm to just learning on this unit to

PS

The control commands are very cool thanks Will

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of ki0eo@...
Sent: Sunday, January 15, 2012 6:26 PM
To: hp8924@yahoogroups.com
Subject: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

I did mine without a dip switch change.

Don KI0EO

--- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com> , <tim@...> wrote:
>
> When I did my upgrade, there was no mention of dip switch changing either. The unit measures input power correctly... Guess I ought to check the other input as well!
>
> Tim W5FN
>
> -----Original Message-----
> From: tleather1@...
> Sent: Sunday, January 15, 2012 11:53 AM
> To: hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>
> Subject: Re: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay
>
>
> In the file section there is the cal file and the sw to read write to a pcmcia card
>
> Also you need to change switch 1 to off on the main board (right side of the test set dip switches ) to load cal data .
>
> I just installed 100 w upgrade and worked fine .
> Read the note for the cal data file you need to change file name
>
> When you go to the card there is only 1 file on it DNLOADCAL some thing like that
>
> You can email me @ tleaher1@...
> Sent from my BlackBerryÂ® smartphone with Nextel Direct Connect
> From: Tim <tim@...>

> Sender: hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>
> Date: Sun, 15 Jan 2012 10:02:24 -0600
> To: <hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com> >
> ReplyTo: hp8924@...m <mailto:hp8924%40yahoogroups.com>
> Subject: Re: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay
>
> Â
> Mike - When you put a 'real' signal into it (like from a handheld or something),
> does it correctly read the power?
>
> I have a feeling that it won't, meaning the wrong calibration data is in the box.
>
> Until you get the right data in the box, you can use the 'fudge factor' entry.Â (I
> can't remember where it is, but allows you to use external attenuators & still
> have the box read correctly).
>
>
>
> TIm W5FN
>
> On 1/15/2012 8:54 AM, Mike (WM4B) wrote:
> Â
> 100 MHZ, 450 MHz and 850 MHz.
> Â
> Â
> Â
> From: hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>
[mailto:hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com> ] On Behalf Of keith
> Sent: Sunday, January 15, 2012 1:00 AM
> To: hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>
> Subject: Re: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay
> Â
> Â
> What frequency did you test at? Was it above 30 Mhz?
> Try testing at another frequency like 100 Mhz.
> Â
> Â
> From: Mike (WM4B)
> Sent: Sunday, January 15, 2012 6:54 PM
> To: hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>
> Subject: RE: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay
> Â
> Â
> Got the new calibration data from the seller yesterday and got it uploaded.Â Seemed to go
okay this time.
> Tonight I was playing with the instrument and connected my signal generator to the -8924
Spectrum Analyzer input.Â With the signal generator set at 0 dBm, the Spectrum Analyzer
showed about -13 dBm.Â I followed this up with a loopback test (-8924 duplex out to antenna
in) and go pretty similar results.Â The delta tracks at about 13 dB regardless of the
setting of the generator output or frequency.Â Several different cables were tried.

> What the heck is going on here?Â Iâ€™m starting to feel pretty well hosed over this entire â€˜upgradeâ€™ deal.Â Iâ€™m about ready to put the old attenuator back in, but without calibration data for it, Iâ€™m still out of luc k.
> Have lost my mind?
> 73,
> Mike
> WM4B
>
> > > >
> > > > From: Mike (WM4B) <mwbesemer@>
> > > > Subject: [hp8924] HP-8924C 60 Watt Upgrade from eBay
> > > > To: mailto:hp8924%40yahoogroups.com <mailto:hp8924%40yahoogroups.com> <mailto:hp8924%40yahoogroups.com>
> > > > Date: Sunday, January 8, 2012, 5:56 PM
> > > >
> > > > I installed the new attenuator from the eBay 60-watt upgrade kit today, but
> > > > can't seem to get the cali bration data uploaded.
> > > >
> > > > When I go to the TESTS menu, and set the 'Load Test Procedure' to 'CARD' and
> > > > the 'Select Procedure Filename', it appears that there is nothing on the
> > > > card. At the top of the screen, it says " Error 85 During Procedure
> > > > Catalog"
> > > >
> > > > I've got message in to the eBay seller, but sure would like to get this
> > > > figured out so I can get the test set running again.
> > > >
> > > > 73,
> > > >
> > > > Mike
> > > > WM4B
> > > >
> > >
> >
>
> Reply to sender | Reply to group | Reply via web post | Start a New TopicMessages in this topic (18)
> Recent Activity:
>
>
> [The entire original message is not included]
>

# 574. Re: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

Yahoo group: hp8924
Date: 2012-01-16 02:02:42 UTC
From: Tim
Topic: 532  Message: 574

Hi Mike,

After looking at things a bit closer (more than a ... yep, the peak looks like it's at the top...), it appears that I'm about 2dB off. With 0 out & referenced to 0, it says -2.35dB.

Well, mebbe I screwed up by not flipping the dip switches. Don't remember that screen coming up, but definitely didn't do it.

The input power looks correct.

Guess I'll try & get ahold of rf_toys & see what he says.

I know another guy who got it, and will ask him.

Tim W5FN

# 575. RE: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

Yahoo group: hp8924
Date: 2012-01-16 03:00:41 UTC
From: Mike (WM4B)
Topic: 532  Message: 575

Okay… I did some more tests tonight. Here’s what I found:

- All tests done at 100 MHz, 0 dBm

-- With 60 Watt pad installed (upgrade kit) and (supposedly) updated CAL Data
--- RF In/Out to Antenna Port: -22.39 dB
--- Duplex to Antenna Port: -12.6 dB

-- With 3 Watt pad installed (swapped back to original pad) and (supposedly) updated CAL Data
--- RF In/Out to Antenna Port: -1.6 dB
--- Duplex to Antenna Port: -11 dB

Based on this, (especially RF In/Out to Antenna Port: -1.6 dB with the original 3 watt pad installed) it sure seems to me like the CAL data did not update. Do you guys agree?

I know darn well it was right before the upgrade, and I also know that that pad only impacts the RF In/Out Port, so I can't explain why the Duplex to Antenna numbers are skewed... but I have to suspect that the CAL data also updates other parameters.

Ya'll tell me if I'm barking up the wrong tree... it's been a long day!

73,

Mike
WM4B

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Tim
Sent: Sunday, January 15, 2012 9:03 PM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

Hi Mike,

After looking at things a bit closer (more than a ... yep,
the peak looks like it's at the top...), it appears that
I'm about 2dB off. With 0 out & referenced to 0,
it says -2.35dB.

Well, mebbe I screwed up by not flipping the dip
switches. Don't remember that screen coming up,
but definitely didn't do it.

The input power looks correct.

Guess I'll try & get ahold of rf_toys & see what he
says.

I know another guy who got it, and will ask him.

Tim W5FN

# 576. RE: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

Yahoo group: hp8924
Date: 2012-01-16 03:01:30 UTC
From: Mike (WM4B)
Topic: 532  Message: 576

Hmmmm… I thought that was only for firmware updates. Time to read the book again!

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Thomas Leather
Sent: Sunday, January 15, 2012 8:42 PM
To: hp8924@yahoogroups.com
Subject: RE: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

On main io board there are 4 dip switches they lock the rom memory of the unit , the switch closes to the front of test set turn off ( change position ) re boot unit & continue with upgrade , the cal program will tell you to do this . If you didn't I don't think that cal was updated at all – you may get the right pwr reading??? . I did 100 watt upgrade .

Well I'm to just learning on this unit to

PS

The control commands are very cool thanks Will

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of ki0eo@hotmail.com
Sent: Sunday, January 15, 2012 6:26 PM
To: hp8924@...m
Subject: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

I did mine without a dip switch change.

Don KI0EO

--- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com> , <tim@...> wrote:
>
> When I did my upgrade, there was no mention of dip switch changing either. The unit measures input power correctly... Guess I ought to check the other input as well!
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> Tim W5FN
>
> -----Original Message-----
> From: tleather1@...
> Sent: Sunday, January 15, 2012 11:53 AM
> To: hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>
> Subject: Re: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay
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> In the file section there is the cal file and the sw to read write to a pcmcia card
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> You can email me @ tleaher1@...
> Sent from my BlackBerryÂ® smartphone with Nextel Direct Connect
> From: Tim <tim@...>
> Sender: hp8924@...m <mailto:hp8924%40yahoogroups.com>
> Date: Sun, 15 Jan 2012 10:02:24 -0600
> To: <hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com> >
> ReplyTo: hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>
> Subject: Re: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay
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> Mike - When you put a 'real' signal into it (like from a handheld or something),
> does it correctly read the power?
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> Â
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> Tonight I was playing with the instrument and connected my signal generator to the -8924 Spectrum Analyzer input.Â With the signal generator set at 0 dBm, the Spectrum Analyzer showed about -13 dBm.Â I followed this up with a loopback test (-8924 duplex out to antenna in) and go pretty similar results.Â The delta tracks at about 13 dB regardless of the setting of the generator output or frequency.Â Several different cables were tried.
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> > > > From: Mike (WM4B) <mwbesemer@>
> > > > Subject: [hp8924] HP-8924C 60 Watt Upgrade from eBay
> > > > To: mailto:hp8924%40yahoogroups.com <mailto:hp8924%40yahoogroups.com> <mailto:hp8924%40yahoogroups.com>
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> > > > I installed the new attenuator from the eBay 60-watt upgrade kit today, but
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> Reply to sender | Reply to group | Reply via web post | Start a New TopicMessages in this topic (18)
> Recent Activity:
>
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> [The entire original message is not included]
>

# 577. RE: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

Yahoo group: hp8924
Date: 2012-01-16 03:05:22 UTC
From: Mike (WM4B)
Topic: 532  Message: 577

BTW, the cal program for the 60 watt upgrade did not specify this.

Where’d you get your 100 watt upgrade?

Mike

WM4B

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Thomas Leather
Sent: Sunday, January 15, 2012 8:42 PM
To: hp8924@yahoogroups.com
Subject: RE: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

On main io board there are 4 dip switches they lock the rom memory of the unit , the switch closes to the front of test set turn off ( change position ) re boot unit & continue with upgrade , the cal program will tell you to do this . If you didn’t I don’t think that cal was updated at all – you may get the right pwr reading??? . I did 100 watt upgrade .

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From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of ki0eo@...
Sent: Sunday, January 15, 2012 6:26 PM
To: hp8924@yahoogroups.com
Subject: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

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Don KI0EO

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>
> I just installed 100 w upgrade and worked fine .
> Read the note for the cal data file you need to change file name
>
> When you go to the card there is only 1 file on it DNLOADCAL some thing like that
>
> You can email me @ tleaher1@...
> Sent from my BlackBerryÂ® smartphone with Nextel Direct Connect
> From: Tim <tim@...>
> Sender: hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>
> Date: Sun, 15 Jan 2012 10:02:24 -0600
> To: <hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com> >
> ReplyTo: hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>
> Subject: Re: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay
>
> Â
> Mike - When you put a 'real' signal into it (like from a handheld or something),
> does it correctly read the power?
>
> I have a feeling that it won't, meaning the wrong calibration data is in the box.
>
> Until you get the right data in the box, you can use the 'fudge factor' entry.Â (I
> can't remember where it is, but allows you to use external attenuators & still
> have the box read correctly).
>
>
>
> TIm W5FN
>
> On 1/15/2012 8:54 AM, Mike (WM4B) wrote:
> Â
> 100 MHZ, 450 MHz and 850 MHz.
> Â
> Â
> Â
> From: hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>
[mailto:hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com> ] On Behalf Of keith
> Sent: Sunday, January 15, 2012 1:00 AM
> To: hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>
> Subject: Re: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay
> Â
> Â
> What frequency did you test at? Was it above 30 Mhz?
> Try testing at another frequency like 100 Mhz.
> Â
> Â
> From: Mike (WM4B)

> Sent: Sunday, January 15, 2012 6:54 PM
> To: hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>
> Subject: RE: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay
> Â
> Â
> Got the new calibration data from the seller yesterday and got it uploaded.Â Seemed to go okay this time.
> Tonight I was playing with the instrument and connected my signal generator to the -8924 Spectrum Analyzer input.Â With the signal generator set at 0 dBm, the Spectrum Analyzer showed about -13 dBm.Â I followed this up with a loopback test (-8924 duplex out to antenna in) and go pretty similar results.Â The delta tracks at about 13 dB regardless of the setting of the generator output or frequency.Â Several different cables were tried.
> What the heck is going on here?Â Iâ€™m starting to feel pretty well hosed over this entire â€˜upgradeâ€™ deal.Â Iâ€™m about ready to put the old attenuator back in, but without calibration data for it, Iâ€™m still out of luc k.
> Have lost my mind?
> 73,
> Mike
> WM4B
>
> > > >
> > > > From: Mike (WM4B) <mwbesemer@>
> > > > Subject: [hp8924] HP-8924C 60 Watt Upgrade from eBay
> > > > To: mailto:hp8924%40yahoogroups.com <mailto:hp8924%40yahoogroups.com> <mailto:hp8924%40yahoogroups.com>
> > > > Date: Sunday, January 8, 2012, 5:56 PM
> > > >
> > > > I installed the new attenuator from the eBay 60-watt upgrade kit today, but
> > > > can't seem to get the cali bration data uploaded.
> > > >
> > > > When I go to the TESTS menu, and set the 'Load Test Procedure' to 'CARD' and
> > > > the 'Select Procedure Filename', it appears that there is nothing on the
> > > > card. At the top of the screen, it says " Error 85 During Procedure
> > > > Catalog"
> > > >
> > > > I've got message in to the eBay seller, but sure would like to get this
> > > > figured out so I can get the test set running again.
> > > >
> > > > 73,
> > > >
> > > > Mike
> > > > WM4B
> > > >
> > >
> >
>
>
> Reply to sender | Reply to group | Reply via web post | Start a New TopicMessages in this topic (18)
> Recent Activity:

>
>
> [The entire original message is not included]
>

# 578. Re: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

Yahoo group: hp8924
Date: 2012-01-16 03:08:22 UTC
From: Tim
Topic: 532  Message: 578

I got the 100 watt upgrade from rf_toys.

Tim

# 579. RE: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

Yahoo group: hp8924
Date: 2012-01-16 05:43:00 UTC
From: Thomas Leather
Topic: 532  Message: 579

I got it from EBay about 10 months ago but never installed it, did not have time new job & chief at FD & 2 kids 9/3 keep me very busy, any way all I did was installed new pad & put in card started program it loaded to a screen told me to shut down change dip switch, reboot for cal upgrade, This make perfect sense to me because cal data has to be place on ROM chip so it cannot be change by user error??? ,

Also I went to test – rom – utilities you can run a complete diagnostic RF test on test set. just did mine & it is spot on – also checked power meter using a portable & 2 other meters 1- bird & 1- Motorola all were very close to the same reading

I'm pretty shore that I got mine from RF guys I will look it up

PS I would keep the sram card for storage3 of tests.

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Mike (WM4B)
Sent: Sunday, January 15, 2012 10:05 PM
To: hp8924@yahoogroups.com
Subject: RE: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

BTW, the cal program for the 60 watt upgrade did not specify this.

Where'd you get your 100 watt upgrade?

Mike

WM4B

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Thomas Leather
Sent: Sunday, January 15, 2012 8:42 PM
To: hp8924@yahoogroups.com
Subject: RE: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

On main io board there are 4 dip switches they lock the rom memory of the unit , the switch closes to the front of test set turn off ( change position ) re boot unit & continue with upgrade , the cal program will tell you to do this . If you didn't I don't think that cal was updated at all – you may get the right pwr reading??? . I did 100 watt upgrade .

Well I'm to just learning on this unit to

PS

The control commands are very cool thanks Will

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of ki0eo@...
Sent: Sunday, January 15, 2012 6:26 PM
To: hp8924@yahoogroups.com
Subject: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

I did mine without a dip switch change.

Don KI0EO

--- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com> , <tim@...> wrote:
>
> When I did my upgrade, there was no mention of dip switch changing either. The unit measures input power correctly... Guess I ought to check the other input as well!
>
> Tim W5FN
>
> -----Original Message-----
> From: tleather1@...
> Sent: Sunday, January 15, 2012 11:53 AM
> To: hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>
> Subject: Re: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay
>
>
> In the file section there is the cal file and the sw to read write to a pcmcia card
>
> Also you need to change switch 1 to off on the main board (right side of the test set dip switches ) to load cal data .
>
> I just installed 100 w upgrade and worked fine .
> Read the note for the cal data file you need to change file name
>
> When you go to the card there is only 1 file on it DNLOADCAL some thing like that
>
> You can email me @ tleaher1@...
> Sent from my BlackBerryÂ® smartphone with Nextel Direct Connect
> From: Tim <tim@...>
> Sender: hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>
> Date: Sun, 15 Jan 2012 10:02:24 -0600
> To: <hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com> >
> ReplyTo: hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>
> Subject: Re: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay
>
> Â
> Mike - When you put a 'real' signal into it (like from a handheld or something),
> does it correctly read the power?
>
> I have a feeling that it won't, meaning the wrong calibration data is in the box.
>
> Until you get the right data in the box, you can use the 'fudge factor' entry.Â (I
> can't remember where it is, but allows you to use external attenuators & still
> have the box read correctly).
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>
>
> TIm W5FN
>
> On 1/15/2012 8:54 AM, Mike (WM4B) wrote:
> Â

> 100 MHZ, 450 MHz and 850 MHz.
> Â
> Â
> Â
> From: hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>
[mailto:hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com> ] On Behalf Of keith
> Sent: Sunday, January 15, 2012 1:00 AM
> To: hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>
> Subject: Re: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay
> Â
> Â
> What frequency did you test at? Was it above 30 Mhz?
> Try testing at another frequency like 100 Mhz.
> Â
> Â
> From: Mike (WM4B)
> Sent: Sunday, January 15, 2012 6:54 PM
> To: hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>
> Subject: RE: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay
> Â
> Â
> Got the new calibration data from the seller yesterday and got it uploaded.Â Seemed to go okay this time.
> Tonight I was playing with the instrument and connected my signal generator to the -8924 Spectrum Analyzer input.Â With the signal generator set at 0 dBm, the Spectrum Analyzer showed about -13 dBm.Â I followed this up with a loopback test (-8924 duplex out to antenna in) and go pretty similar results.Â The delta tracks at about 13 dB regardless of the setting of the generator output or frequency.Â Several different cables were tried.
> What the heck is going on here?Â Iâ€™m starting to feel pretty well hosed over this entire â€˜upgradeâ€™ deal.Â Iâ€™m about ready to put the old attenuator back in, but without calibration data for it, Iâ€™m still out of luc k.
> Have lost my mind?
> 73,
> Mike
> WM4B
>
> > > >
> > > > From: Mike (WM4B) <mwbesemer@>
> > > > Subject: [hp8924] HP-8924C 60 Watt Upgrade from eBay
> > > > To: mailto:hp8924%40yahoogroups.com <mailto:hp8924%40yahoogroups.com>
<mailto:hp8924%40yahoogroups.com>
> > > > Date: Sunday, January 8, 2012, 5:56 PM
> > > >
> > > > I installed the new attenuator from the eBay 60-watt upgrade kit today, but
> > > > can't seem to get the cali bration data uploaded.
> > > >
> > > > When I go to the TESTS menu, and set the 'Load Test Procedure' to 'CARD' and
> > > > the 'Select Procedure Filename', it appears that there is nothing on the
> > > > card. At the top of the screen, it says " Error 85 During Procedure
> > > > Catalog"

> > > >
> > > > I've got message in to the eBay seller, but sure would like to get this
> > > > figured out so I can get the test set running again.
> > > >
> > > > 73,
> > > >
> > > > Mike
> > > > WM4B
> > > >
> > >
> >
>
>
> Reply to sender | Reply to group | Reply via web post | Start a New TopicMessages in this topic (18)
> Recent Activity:
>
>
> [The entire original message is not included]
>

# 580. Re: HP-8924C 60 Watt Upgrade from eBay

Yahoo group: hp8924
Date: 2012-01-16 06:39:01 UTC
From: tleather1
Topic: 532  Message: 580

Please look at screen shots I posted under photos , Hope this helps

--- In hp8924@yahoogroups.com, "keith" <oldmill@...> wrote:
>
> What frequency did you test at? Was it above 30 Mhz?
> Try testing at another frequency like 100 Mhz.
>
>
> From: Mike (WM4B)
> Sent: Sunday, January 15, 2012 6:54 PM
> To: hp8924@yahoogroups.com
> Subject: RE: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay
>
>
>
> Got the new calibration data from the seller yesterday and got it uploaded. Seemed to go okay this time.
>
> Tonight I was playing with the instrument and connected my signal generator to the -8924 Spectrum Analyzer input. With the signal generator set at 0 dBm, the Spectrum Analyzer showed about -13 dBm. I followed this up with a loopback test (-8924 duplex out to antenna in) and go pretty similar results. The delta tracks at about 13 dB regardless of the setting of the generator output or frequency. Several different cables were tried.
>
> What the heck is going on here? Iâ□□m starting to feel pretty well hosed over this entire â□□upgradeâ□□ deal. Iâ□□m about ready to put the old attenuator back in, but without calibration data for it, Iâ□□m still out of luc k.
>
> Have lost my mind?
>
> 73,
>
> Mike
>
> WM4B
>
>
>
>
> > > >
> > > > From: Mike (WM4B) <mwbesemer@>
> > > > Subject: [hp8924] HP-8924C 60 Watt Upgrade from eBay
> > > > To: mailto:hp8924%40yahoogroups.com <mailto:hp8924%40yahoogroups.com>
<mailto:hp8924%40yahoogroups.com>
> > > > Date: Sunday, January 8, 2012, 5:56 PM
> > > >
> > > > I installed the new attenuator from the eBay 60-watt upgrade kit today, but

> > > > can't seem to get the cali bration data uploaded.
> > > >
> > > > When I go to the TESTS menu, and set the 'Load Test Procedure' to 'CARD' and
> > > > the 'Select Procedure Filename', it appears that there is nothing on the
> > > > card. At the top of the screen, it says " Error 85 During Procedure
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> > > >
> > > > I've got message in to the eBay seller, but sure would like to get this
> > > > figured out so I can get the test set running again.
> > > >
> > > > 73,
> > > >
> > > > Mike
> > > > WM4B
> > > >
> > >
> >
>

# 581. Video Converter 19.2kHz

Yahoo group: hp8924
Date: 2012-01-16 07:33:10 UTC
From: yobbo70
Topic: 581  Message: 581

Hello I have read with interest about the progress members have made with converting the video from 19.2kHz, well do and thank you,

I have found over the last year or so (since turning 40) I have come to rely on glasses and that CRT screen on the 8924c just keeps getting smaller,

For the last six months and for the next six months I and very time poor, due to family and work and more work commitments,

I have found a video converter that will sync from 12Khz to 40kHz it is a GONBES GBS8219 : ebay item number 260805206879

will this work on the 8924c I know it`s not cheap, but it would be worth it to see the display without my goggles on,

Thank you Ian VK4NFL

# 582. RE: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

Yahoo group: hp8924
Date: 2012-01-16 13:31:16 UTC
From: Mike (WM4B)
Topic: 532  Message: 582

Thomas et al,

It does make sense - but there was no mention of it in the Cal procedure provided. More and more I'm convinced that my Cal data did not upload properly.

I've already sent the card back, and given that I've had at least one (and possibly 2) problems with Cal cards from the eBay seller, I'd sure like to get Cal data from someone else.

73,

Mike
WM4B

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Thomas Leather
Sent: Monday, January 16, 2012 12:43 AM
To: hp8924@yahoogroups.com
Subject: RE: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

I got it from EBay about 10 months ago but never installed it, did not have time new job & chief at FD & 2 kids 9/3 keep me very busy, any way all I did was installed new pad & put in card started program it loaded to a screen told me to shut down change dip switch, reboot for cal upgrade, This make perfect sense to me because cal data has to be place on ROM chip so it cannot be change by user error??? ,

Also I went to test – rom – utilities you can run a complete diagnostic RF test on test set. just did mine & it is spot on – also checked power meter using a portable & 2 other meters 1- bird & 1- Motorola all were very close to the same reading
I’m pretty shore that I got mine from RF guys I will look it up

PS I would keep the sram card for storage3 of tests.

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Mike (WM4B)
Sent: Sunday, January 15, 2012 10:05 PM
To: hp8924@yahoogroups.com
Subject: RE: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

BTW, the cal program for the 60 watt upgrade did not specify this.

Where’d you get your 100 watt upgrade?

Mike
WM4B

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Thomas Leather
Sent: Sunday, January 15, 2012 8:42 PM
To: hp8924@yahoogroups.com
Subject: RE: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

On main io board there are 4 dip switches they lock the rom memory of the unit , the switch closes to the front of test set turn off ( change position ) re boot unit & continue with upgrade , the cal program will tell you to do this . If you didn't I don't think that cal was updated at all – you may get the right pwr reading??? . I did 100 watt upgrade .

Well I'm to just learning on this unit to

PS
The control commands are very cool thanks Will
From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of ki0eo@hotmail.com
Sent: Sunday, January 15, 2012 6:26 PM
To: hp8924@yahoogroups.com
Subject: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

I did mine without a dip switch change.

Don KI0EO

--- In hp8924@yahoogroups.com, <tim@...> wrote:
>
> When I did my upgrade, there was no mention of dip switch changing either. The unit measures input power correctly... Guess I ought to check the other input as well!
>
> Tim W5FN
>
> -----Original Message-----
> From: tleather1@...
> Sent: Sunday, January 15, 2012 11:53 AM
> To: hp8924@yahoogroups.com
> Subject: Re: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay
>
>
> In the file section there is the cal file and the sw to read write to a pcmcia card
>
> Also you need to change switch 1 to off on the main board (right side of the test set dip switches ) to load cal data .
>
> I just installed 100 w upgrade and worked fine .
> Read the note for the cal data file you need to change file name
>
> When you go to the card there is only 1 file on it DNLOADCAL some thing like that
>
> You can email me @ tleaher1@...
> Sent from my BlackBerryÂ® smartphone with Nextel Direct Connect
> From: Tim <tim@...>
> Sender: hp8924@yahoogroups.com
> Date: Sun, 15 Jan 2012 10:02:24 -0600
> To: <hp8924@yahoogroups.com>
> ReplyTo: hp8924@yahoogroups.com
> Subject: Re: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay
>

> Â
> Mike - When you put a 'real' signal into it (like from a handheld or something),
> does it correctly read the power?
>
> I have a feeling that it won't, meaning the wrong calibration data is in the box.
>
> Until you get the right data in the box, you can use the 'fudge factor' entry.Â (I
> can't remember where it is, but allows you to use external attenuators & still
> have the box read correctly).
>
>
>
> TIm W5FN
>
> On 1/15/2012 8:54 AM, Mike (WM4B) wrote:
> Â
> 100 MHZ, 450 MHz and 850 MHz.
> Â
> Â
> Â
> From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of keith
> Sent: Sunday, January 15, 2012 1:00 AM
> To: hp8924@yahoogroups.com
> Subject: Re: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay
> Â
> Â
> What frequency did you test at? Was it above 30 Mhz?
> Try testing at another frequency like 100 Mhz.
> Â
> Â
> From: Mike (WM4B)
> Sent: Sunday, January 15, 2012 6:54 PM
> To: hp8924@yahoogroups.com
> Subject: RE: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay
> Â
> Â
> Got the new calibration data from the seller yesterday and got it uploaded.Â Seemed to go
okay this time.
> Tonight I was playing with the instrument and connected my signal generator to the -8924
Spectrum Analyzer input.Â With the signal generator set at 0 dBm, the Spectrum Analyzer
showed about -13 dBm.Â I followed this up with a loopback test (-8924 duplex out to antenna
in) and go pretty similar results.Â The delta tracks at about 13 dB regardless of the
setting of the generator output or frequency.Â Several different cables were tried.
> What the heck is going on here?Â Iâ€™m starting to feel pretty well hosed over this
entire â€˜upgradeâ€™ deal.Â Iâ€™m about ready to put the old attenuator back in, but
without calibration data for it, Iâ€™m still out of luc k.
> Have lost my mind?
> 73,
> Mike
> WM4B

>
> > > >
> > > > From: Mike (WM4B) <mwbesemer@>
> > > > Subject: [hp8924] HP-8924C 60 Watt Upgrade from eBay
> > > > To: mailto:hp8924%40yahoogroups.com <mailto:hp8924%40yahoogroups.com>
<mailto:hp8924%40yahoogroups.com>
> > > > Date: Sunday, January 8, 2012, 5:56 PM
> > > >
> > > > I installed the new attenuator from the eBay 60-watt upgrade kit today, but
> > > > can't seem to get the cali bration data uploaded.
> > > >
> > > > When I go to the TESTS menu, and set the 'Load Test Procedure' to 'CARD' and
> > > > the 'Select Procedure Filename', it appears that there is nothing on the
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> > > > I've got message in to the eBay seller, but sure would like to get this
> > > > figured out so I can get the test set running again.
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> > > > 73,
> > > >
> > > > Mike
> > > > WM4B
> > > >
> > >
> >
>
>
> Reply to sender | Reply to group | Reply via web post | Start a New TopicMessages in this
topic (18)
> Recent Activity:
>
>
> [The entire original message is not included]
>

# 583. Re: [hp8924] Video Converter 19.2kHz

Yahoo group: hp8924
Date: 2012-01-16 17:35:58 UTC
From: Tim
Topic: 581  Message: 583

Hi Ian,

That may work. Have you looked into specific video monitors that will handle the 19.2 kHz sync?

It may be cheaper to get a monitor than the converter. (I have not looked for one)

Tim W5FN

On 1/16/2012 1:33 AM, yobbo70 wrote:
>
> Hello I have read with interest about the progress members have made
> with converting the video from 19.2kHz, well do and thank you,
>
> I have found over the last year or so (since turning 40) I have come
> to rely on glasses and that CRT screen on the 8924c just keeps getting
> smaller,
>
> For the last six months and for the next six months I and very time
> poor, due to family and work and more work commitments,
>
> I have found a video converter that will sync from 12Khz to 40kHz it
> is a GONBES GBS8219 : ebay item number 260805206879
>
> will this work on the 8924c I know it`s not cheap, but it would be
> worth it to see the display without my goggles on,
>
> Thank you Ian VK4NFL
>
>
>

# 584. Re: Video Converter 19.2kHz

Yahoo group: hp8924
Date: 2012-01-16 21:51:44 UTC
From: willcoele@ameritech.net
Topic: 581  Message: 584

There are no monitors that can sync up to 19.2 KHz. There were commecrial monitors like the ones used in airports that would work but they were very expensive and, more than likely, they are no longer manufactured.

You need something that converts the scan rate to a VGA monitor and that's what the GBS 8200 provides. For it to display properly on a VGA monitor, it needs a few modifications. There are photos that I uploaded in the Photos Section that shows how to modify the 8200 to work properly with the 8924.

--- In hp8924@yahoogroups.com, Tim <tim@...> wrote:
>
> Hi Ian,
>
> That may work. Have you looked into specific video monitors that will
> handle the 19.2 kHz sync?
>
> It may be cheaper to get a monitor than the converter. (I have not
> looked for one)
>
> Tim W5FN
>
>

# 585. Re: [hp8924] Re: Video Converter 19.2kHz

Yahoo group: hp8924
Date: 2012-01-16 22:09:24 UTC
From: Tim
Topic: 581  Message: 585

Hi Wilco,

Thanks for the info.

I seem to remember us using some 19.2k monitors at work for our pcb layout workstations, but that has been a looooooong time ago!

Too bad there's not a cheaper solution.

They also needed two folks to lift!

Tim

On 1/16/2012 3:51 PM, willcoele@... wrote:
>
> There are no monitors that can sync up to 19.2 KHz. There were
> commecrial monitors like the ones used in airports that would work but
> they were very expensive and, more than likely, they are no longer
> manufactured.
>
> You need something that converts the scan rate to a VGA monitor and
> that's what the GBS 8200 provides. For it to display properly on a VGA
> monitor, it needs a few modifications. There are photos that I
> uploaded in the Photos Section that shows how to modify the 8200 to
> work properly with the 8924.
>
> --- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>, Tim
> <tim@...> wrote:
> >
> > Hi Ian,
> >
> > That may work. Have you looked into specific video monitors that will
> > handle the 19.2 kHz sync?
> >
> > It may be cheaper to get a monitor than the converter. (I have not
> > looked for one)
> >
> > Tim W5FN
> >
> >
>
>

# 586. Re: [hp8924] Re: Video Converter 19.2kHz

Yahoo group: hp8924
Date: 2012-01-16 23:14:47 UTC
From: Ralph S. Turk
Topic: 581  Message: 586

I was able to modify the Horiz Hold circuit of a 17" B&W monitor to lock to the 19.2.
It is just hard to find any. Also you would need to add a isolation Transformer to some of the old tranformer-less monitors .

Ralph, W7HSG
----- Original Message -----
From: willcoele@...
To: hp8924@yahoogroups.com
Sent: Monday, January 16, 2012 2:51:44 PM
Subject: [hp8924] Re: Video Converter 19.2kHz

There are no monitors that can sync up to 19.2 KHz. There were commercial monitors like the ones used in airports that would work but they were very expensive and, more than likely, they are no longer manufactured.

You need something that converts the scan rate to a VGA monitor and that's what the GBS 8200 provides. For it to display properly on a VGA monitor, it needs a few modifications. There are photos that I uploaded in the Photos Section that shows how to modify the 8200 to work properly with the 8924.

--- In hp8924@yahoogroups.com , Tim <tim@...> wrote:
>
> Hi Ian,
>
> That may work. Have you looked into specific video monitors that will
> handle the 19.2 kHz sync?
>
> It may be cheaper to get a monitor than the converter. (I have not
> looked for one)
>
> Tim W5FN
>
>

# 587. Need help from some of you guru's

Yahoo group: hp8924
Date: 2012-01-17 00:18:18 UTC
From: abrigno1
Topic: 587  Message: 587

I thought I had this figured out but not so sure now.

I am trying to sweep some reject cavities and am having trouble getting a good reading. The notch for a single cavity appears to be around -45Db, so with 2 in series I get around -90 dB. Problem is that at the bottom of the notch I am getting a lot of noise and not a clean dip. I can set the RF generator up to +15 db and that helps a little but not sure how to read the actual dept at that point vs what is on the unit.

What I thought was that if my reference was say zero then I had to subtract the gain from the RF generator to get the acutal reading. If both the RF generator and the reference were the same then I should be able to read the notch depth directly.

A quick simple explanation would sure help.

Also how deep a notch are you able to actually measure with the 8924C.

# 588. Re: [hp8924] Need help from some of you guru's

Yahoo group: hp8924
Date: 2012-01-17 01:09:58 UTC
From: Ralph Mowery
Topic: 587  Message: 588

If you only care about the notch and not the exact value, around 125 to 130 db.  You set the generator to max  (18) and on the Auxilary screen the sensitivity to high.

Calibrated, about 10 db less.

The noise makes it difficult to get a very good reading that low.
I am thinking the sensitivity is around -115 db, so that is where the noise limits the measurements.

It helps to set the screen to about 2 or 3 sweeps by going to the auxilary screen and setting the one on the botom left to 2.  This sort of averages out some of the noise, but you have to wait for the trace to sweep that many times, so go slow.

If you set the generator to higher than 0, you add that value to the display.  When setting the main screen to minus db, it seems to track. But you have to add that value to the number of devisions on the screen if you look at the trace on the scope.

I think in your case if the generator is set to 0 db and the main is set to -50, then 4 main devisions down on the screen should be -50 and -40 for -90db.  To that add any ateunation you have in line.

I hope you are using double shielded or beter cables at that level.

--- On Mon, 1/16/12, abrigno1 <abrigno@...> wrote:

From: abrigno1 <abrigno@comcast.net>
Subject: [hp8924] Need help from some of you guru's
To: hp8924@yahoogroups.com
Date: Monday, January 16, 2012, 7:18 PM

I thought I had this figured out but not so sure now.

I am trying to sweep some reject cavities and am having trouble getting a good reading. The notch for a single cavity appears to be around -45Db, so with 2 in series I get around -90 dB. Problem is that at the bottom of the notch I am getting a lot of noise and not a clean dip. I can set the RF generator up to +15 db and that helps a little but not sure how to read the actual dept at that point vs what is on the unit.

What I thought was that if my reference was say zero then I had to subtract the gain from the RF generator to get the acutal reading. If both the RF generator and the reference were the same then I should be able to read the notch depth directly.

A quick simple explanation would sure help.

Also how deep a notch are you able to actually measure with the 8924C.

# 589. Re: Video Converter 19.2kHz

Yahoo group: hp8924
Date: 2012-01-17 02:07:04 UTC
From: yobbo70
Topic: 581  Message: 589

Hi, thanks Tim, yes I have looked and looked for monitors, but being in Australia, there are not to many to choose from, which is why I looked at that converter, to me it would be worth every cent, if it was to work

--- In hp8924@yahoogroups.com, Tim <tim@...> wrote:
>
> Hi Ian,
>
> That may work. Have you looked into specific video monitors that will
> handle the 19.2 kHz sync?
>
> It may be cheaper to get a monitor than the converter. (I have not
> looked for one)
>
> Tim W5FN
>
>
> On 1/16/2012 1:33 AM, yobbo70 wrote:
> >
> > Hello I have read with interest about the progress members have made
> > with converting the video from 19.2kHz, well do and thank you,
> >
> > I have found over the last year or so (since turning 40) I have come
> > to rely on glasses and that CRT screen on the 8924c just keeps getting
> > smaller,
> >
> > For the last six months and for the next six months I and very time
> > poor, due to family and work and more work commitments,
> >
> > I have found a video converter that will sync from 12Khz to 40kHz it
> > is a GONBES GBS8219 : ebay item number 260805206879
> >
> > will this work on the 8924c I know it`s not cheap, but it would be
> > worth it to see the display without my goggles on,
> >
> > Thank you Ian VK4NFL
> >
> >
> >
>

# 590. RF Tools with 8924c?

Yahoo group: hp8924
Date: 2012-01-17 02:37:57 UTC
From: Tim
Topic: 581  Message: 590

Hi Folks,

Is anybody running the RF Tools software with an 8924, or is it only with the 8920/etc boxes?

Thanks,

Tim W5FN

# 591. RE: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

Yahoo group: hp8924
Date: 2012-01-17 03:11:41 UTC
From: Mike (WM4B)
Topic: 532  Message: 591

Well, rfe_toys has new cal data (3 watt and 60 watt) heading my way. We☐ll
see what happens.

I also spoke at-length with Rick from Amtronix tonight; he called me on his
nickel and we spoke and troubleshot for at least 30 minutes. Based on what
we saw, either something got corrupted when the Cal data was uploaded, or I
just happened to suffer a failure in the Input Assembly, Receiver, or
Spectrum Analyzer at the same time I did the upgrade. Unfortunately, I've
been chasing electrons long enough to know that stuff like that DOES happen
and that it'll drive you nuts when it does.

Bottom line: I don't fault rfe_toys for whatever is going on here. There
have been enough satisfied customers for me to believe that Dan is a solid
guy and that I'm just the victim of some dumb luck. It was just my turn in
the barrel.

Also, I HAVE to give a huge shout-out to Rick at Amtronix. He and I have
been emailing all day today, and the phone call I got from him (along with a
lot of his valuable time) are WAY above and beyond what I could have ever
asked for. If I have to send the instrument for repair, you can bet it'll
go to Rick.

Thanks for all who offered advised and sanity checks.

73,

Mike
WM4B

From: hp8924@yahoogroups.com [mailto:hp8924@...m] On Behalf Of
Mike (WM4B)
Sent: Sunday, January 15, 2012 12:54 AM
To: hp8924@yahoogroups.com
Subject: RE: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

Got the new calibration data from the seller yesterday and got it uploaded.
Seemed to go okay this time.
Tonight I was playing with the instrument and connected my signal generator
to the -8924 Spectrum Analyzer input. With the signal generator set at 0
dBm, the Spectrum Analyzer showed about -13 dBm. I followed this up with a
loopback test (-8924 duplex out to antenna in) and go pretty similar
results. The delta tracks at about 13 dB regardless of the setting of the
generator output or frequency. Several different cables were tried.
What the heck is going on here? I☐m starting to feel pretty well hosed over
this entire ☐upgrade☐ deal. I☐m about ready to put the old attenuator back
in, but without calibration data for it, I☐m still out of luck.
Have lost my mind?

73,
Mike
WM4B

> > >
> > > From: Mike (WM4B) <mwbesemer@>
> > > Subject: [hp8924] HP-8924C 60 Watt Upgrade from eBay
> > > To: hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>
<mailto:hp8924%40yahoogroups.com>
> > > Date: Sunday, January 8, 2012, 5:56 PM
> > >
> > > I installed the new attenuator from the eBay 60-watt upgrade kit
today, but
> > > can't seem to get the calibration data uploaded.
> > >
> > > When I go to the TESTS menu, and set the 'Load Test Procedure' to
'CARD' and
> > > the 'Select Procedure Filename', it appears that there is nothing on
the
> > > card. At the top of the screen, it says " Error 85 During Procedure
> > > Catalog"
> > >
> > > I've got message in to the eBay seller, but sure would like to get
this
> > > figured out so I can get the test set running again.
> > >
> > > 73,
> > >
> > > Mike
> > > WM4B
> > >
> >
>

# 592. Re: [hp8924] RF Tools with 8924c?

Yahoo group: hp8924
Date: 2012-01-17 03:23:29 UTC
From: David Wright
Topic: 581  Message: 592

It runs fine on the 8924C

Dave

> Is anybody running the RF Tools software with an 8924, or is it
> only with the 8920/etc boxes?

# 593. Re: Need help from some of you guru's

Yahoo group: hp8924
Date: 2012-01-17 03:56:12 UTC
From: willcoele@ameritech.net
Topic: 587  Message: 593

You can always use an external 20 db amplifier to boost the level. Mini circuits sells several models and you can find cheaper ones on eBay. You will need at least 1 watt.

--- In hp8924@yahoogroups.com, "abrigno1" <abrigno@...> wrote:
>
> I thought I had this figured out but not so sure now.
>
> I am trying to sweep some reject cavities and am having trouble getting a good reading. The notch for a single cavity appears to be around -45Db, so with 2 in series I get around -90 dB. Problem is that at the bottom of the notch I am getting a lot of noise and not a clean dip. I can set the RF generator up to +15 db and that helps a little but not sure how to read the actual dept at that point vs what is on the unit.
>
> What I thought was that if my reference was say zero then I had to subtract the gain from the RF generator to get the acutal reading. If both the RF generator and the reference were the same then I should be able to read the notch depth directly.
>
> A quick simple explanation would sure help.
>
> Also how deep a notch are you able to actually measure with the 8924C.
>

# 594. Re: [hp8924] RF Tools with 8924c?

Yahoo group: hp8924
Date: 2012-01-17 03:55:55 UTC
From: Tim
Topic: 581  Message: 594

Hi Dave,

Thanks for the reply.

Can you tell me what revision it is? (I got a copy of it, and it hung up the 8924 when I tried to run it. The guy I got it from says when he checked, it doesn't run on his 8924 either. (he thought it should).

So, I'm just looking for the revision number to see if I can find that one!

Thanks

Tim

On 1/16/2012 9:23 PM, David Wright wrote:
>
> It runs fine on the 8924C
>
> Dave
>
> > Is anybody running the RF Tools software with an 8924, or is it
> > only with the 8920/etc boxes?
>
>

# 595. Re: [hp8924] RF Tools with 8924c?

Yahoo group: hp8924
Date: 2012-01-17 04:16:54 UTC
From: David Wright
Topic: 581  Message: 595

RFTOOLS REV B.02.00

Dave

> Can you tell me what revision it is?

# 596. Re: [hp8924] Need help from some of you guru's

Yahoo group: hp8924
Date: 2012-01-17 12:55:19 UTC
From: Tony Brignole
Topic: 587  Message: 596

Thanks for reply. I will try some of the suggestions later today.

For the sweep setup I am using 3 dB pads on the in and out and 2 6 ft runs of RG-142 cable and that also could be a problem. I can switch to 1.4 Heliax jumpers which I also have and that would probably work better at 450 MHZ.

----- Original Message -----
From: Ralph Mowery
To: hp8924@yahoogroups.com
Sent: Monday, January 16, 2012 7:09 PM
Subject: Re: [hp8924] Need help from some of you guru's

If you only care about the notch and not the exact value, around 125 to 130 db. You set the generator to max (18) and on the Auxilary screen the sensitivity to high.

Calibrated, about 10 db less.

The noise makes it difficult to get a very good reading that low.
I am thinking the sensitivity is around -115 db, so that is where the noise limits the measurements.

It helps to set the screen to about 2 or 3 sweeps by going to the auxilary screen and setting the one on the botom left to 2. This sort of averages out some of the noise, but you have to wait for the trace to sweep that many times, so go slow.

If you set the generator to higher than 0, you add that value to the display. When setting the main screen to minus db, it seems to track. But you have to add that value to the number of devisions on the screen if you look at the trace on the scope.

I think in your case if the generator is set to 0 db and the main is set to -50, then 4 main devisions down on the screen should be -50 and -40 for -90db. To that add any ateunation you have in line.

I hope you are using double shielded or beter cables at that level.

--- On Mon, 1/16/12, abrigno1 <abrigno@...> wrote:

From: abrigno1 <abrigno@comcast.net>
Subject: [hp8924] Need help from some of you guru's
To: hp8924@yahoogroups.com
Date: Monday, January 16, 2012, 7:18 PM

I thought I had this figured out but not so sure now.

I am trying to sweep some reject cavities and am having trouble getting a good reading. The notch for a single cavity appears to be around -45Db, so with 2 in series I get around -90 dB. Problem is that at the bottom of the notch I am getting a lot of noise and not a clean dip. I can set the RF generator up to +15 db and that helps a little but not sure how to

read the actual dept at that point vs what is on the unit.

What I thought was that if my reference was say zero then I had to subtract the gain from the RF generator to get the acutal reading. If both the RF generator and the reference were the same then I should be able to read the notch depth directly.

A quick simple explanation would sure help.

Also how deep a notch are you able to actually measure with the 8924C.

# 597. Re: [hp8924] RF Tools with 8924c?

Yahoo group: hp8924
Date: 2012-01-17 12:57:37 UTC
From: Tony Brignole
Topic: 581  Message: 597

I have been running the HP RF tools for nearly 2 years and had great luck. I have and Eagle RL bridge and it works great with it.

Rick Bowman at Amtronix has the software on the PCMCIA memory card and you can get it from him. His web site has the procedure for loading it.

----- Original Message -----
From: Tim
To: hp8924@yahoogroups.com
Sent: Monday, January 16, 2012 8:37 PM
Subject: [hp8924] RF Tools with 8924c?

Hi Folks,

Is anybody running the RF Tools software with an 8924, or is it
only with the 8920/etc boxes?

Thanks,

Tim W5FN

# 598. Re: [hp8924] RF Tools with 8924c?

Yahoo group: hp8924
Date: 2012-01-17 15:12:58 UTC
From: Tim
Topic: 581  Message: 598

Hi Tony,

Thanks for the info.

I had gotten the software on a card, but when I tried to load the Return Loss piece of software, it actually hung up the system. It is possibly a software incompatibility with the box. I'm running A.06.25 system software. (I didn't write down what version of the RF Tools software it was.... I sent it back to the guy).

Anyhow was wondering if your RF Tools software is version 2.0, and what revision firmware does your box run?

Thanks!

Tim W5FN

On 1/17/2012 6:57 AM, Tony Brignole wrote:

I have been running the HP RF tools for nearly 2 years and had great luck. I have and Eagle RL bridge and it works great with it.

Rick Bowman at Amtronix has the software on the PCMCIA memory card and you can get it from him. His web site has the procedure for loading it.

----- Original Message -----

From: Tim

To: hp8924@yahoogroups.com

Sent: Monday, January 16, 2012 8:37 PM

Subject: [hp8924] RF Tools with 8924c?

Hi Folks,

Is anybody running the RF Tools software with an 8924, or is it
only with the 8920/etc boxes?

Thanks,

Tim W5FN

# 599. Re: Need help from some of you guru's

Yahoo group: hp8924
Date: 2012-01-17 15:25:13 UTC
From: Joe Leikhim
Topic: 587  Message: 599

If you use an external amplifier, be very careful not to tune out of the notch as the excess power might be unfriendly to the spectrum analyzer.

--
Joe Leikhim

Leikhim and Associates
Communications Consultants
Oviedo, Florida

www.Leikhim.com

JLeikhim@...

407-982-0446

Note to GMail Account users. Due to an abnormally high volume of spam originating from bogus GMail accounts, I have found it necessary to block certain GMail traffic. Please phone me if you believe your message was not received.

# 600. Re: RF Tools with 8924c?

Yahoo group: hp8924
Date: 2012-01-17 16:37:46 UTC
From: david
Topic: 581  Message: 600

I don't think your 8924 is too old to use RFTOOLS. The manual says that if you have a 8920A or 8921A that they need version A.14.00 or higher to run version B.02.00. But if you have a 8920B, any version of firmware will work. So I believe all 8924s would work.

For anyone interested, everything runs OK on an E8285A with firmware A.02.04

Dave N8IT

# 601. Re: RF Tools with 8924c?

Yahoo group: hp8924
Date: 2012-01-17 18:15:53 UTC
From: kb9jzy
Topic: 581  Message: 601

Hi Tim,
I hate to say it but you may be out of luck.
I hope the copy you got was low in cost.
EACH copy of RF Tools is serialized to a specific unit.
Go to Rf Tools website an root around a bit to see what
I mean.and then before you leave take a few minutes to
check out the videos while you are there. AWESOME!
You may have to buy a new copy for YOUR instrument.
However at the HAM discount of $300 a lot cheaper than the
commercial version and with the exact same features!
They do give HAMS a big break.

Terry K9HA

--- In hp8924@yahoogroups.com, Tim <tim@...> wrote:
>
> Hi Folks,
>
> Is anybody running the RF Tools software with an 8924, or is it
> only with the 8920/etc boxes?
>
> Thanks,
>
> Tim W5FN
>

# 602. Re: [hp8924] Re: RF Tools with 8924c?

Yahoo group: hp8924
Date: 2012-01-17 19:03:08 UTC
From: Robert Atkinson
Topic: 581  Message: 602

Hi Terry,
There are two" RF Tools", The original Agilent software 11807E Opt 100 and a current commercial offering from http://www.measurement.net.au/c/25306/1/rf-tools-software.html I think you are refering to the latter. The HP software is not linked to a specific unit. The HP version works fine on my 8920C.

Robert G8RPI.

---
From: kb9jzy <kb9jzy@...>
To: hp8924@yahoogroups.com
Sent: Tuesday, 17 January 2012, 18:15
Subject: [hp8924] Re: RF Tools with 8924c?

Hi Tim,
I hate to say it but you may be out of luck.
I hope the copy you got was low in cost.
EACH copy of RF Tools is serialized to a specific unit.
Go to Rf Tools website an root around a bit to see what
I mean.and then before you leave take a few minutes to
check out the videos while you are there. AWESOME!
You may have to buy a new copy for YOUR instrument.
However at the HAM discount of $300 a lot cheaper than the
commercial version and with the exact same features!
They do give HAMS a big break.

Terry K9HA

--- In hp8924@yahoogroups.com, Tim <tim@...> wrote:
>
> Hi Folks,
>
> Is anybody running the RF Tools software with an 8924, or is it
> only with the 8920/etc boxes?
>
> Thanks,
>
> Tim W5FN
>

# 603. Re: Need help from some of you guru's

Yahoo group: hp8924
Date: 2012-01-17 23:40:42 UTC
From: willcoele@ameritech.net
Topic: 587  Message: 603

That's true. He didn't give the out of band level. If it's -20, he's probably safe using a 20db amplifier. If he uses the antenna input, the "max" level is 200 mV (23 dbm) but the RF in/out is good for 3 watts (if it's a 3 watt unit). 3 watts is 35 dbm. 10 watts 40 dbm and 100 watts is 50 dbm.

I would set the RF generator for Duplex out and the spectrum analyzer for RF In.

--- In hp8924@yahoogroups.com, Joe Leikhim <rhyolite@...> wrote:
>
> If you use an external amplifier, be very careful not to tune out of the
> notch as the excess power might be unfriendly to the spectrum analyzer.
>
> --
> Joe Leikhim
>
> Leikhim and Associates
> Communications Consultants
> Oviedo, Florida
>
> www.Leikhim.com
>
> JLeikhim@...
>
> 407-982-0446
>
> Note to GMail Account users. Due to an abnormally high volume of spam originating from bogus GMail accounts, I have found it necessary to block certain GMail traffic. Please phone me if you believe your message was not received.
>

# 604. Re: RF Tools with 8924c?

Yahoo group: hp8924
Date: 2012-01-18 01:38:24 UTC
From: rfiemiguy
Topic: 581  Message: 604

Has anyone found a low cost USB to HPIB interface to work with RFTools (The Aussie version)?

--- In hp8924@yahoogroups.com, "kb9jzy" <kb9jzy@...> wrote:
>
>
>
>
>
>
>
>
>
> Hi Tim,
> I hate to say it but you may be out of luck.
> I hope the copy you got was low in cost.
> EACH copy of RF Tools is serialized to a specific unit.
> Go to Rf Tools website an root around a bit to see what
> I mean.and then before you leave take a few minutes to
> check out the videos while you are there. AWESOME!
> You may have to buy a new copy for YOUR instrument.
> However at the HAM discount of $300 a lot cheaper than the
> commercial version and with the exact same features!
> They do give HAMS a big break.
>
> Terry K9HA
>
> --- In hp8924@yahoogroups.com, Tim <tim@> wrote:
> >
> > Hi Folks,
> >
> > Is anybody running the RF Tools software with an 8924, or is it
> > only with the 8920/etc boxes?
> >
> > Thanks,
> >
> > Tim W5FN
> >
>

# 605. Re: RF Tools with 8924c?

Yahoo group: hp8924
Date: 2012-01-18 01:41:52 UTC
From: rfiemiguy
Topic: 581  Message: 605

I think the commercial version gives you latitude as to different serial number instruments. The "ham" version is married to the serial number you ask them to "burn" it to. The downside is that if your instrument wears out, you will need new software.

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Hi Terry,
> There are two" RF Tools", The original Agilent software 11807E Opt 100 and a current commercial offering from http://www.measurement.net.au/c/25306/1/rf-tools-software.html I think you are refering to the latter. The HP software is not linked to a specific unit.
> The HP version works fine on my 8920C.
>
> Robert G8RPI.
>
>
>
> _____
> From: kb9jzy <kb9jzy@...>
> To: hp8924@yahoogroups.com
> Sent: Tuesday, 17 January 2012, 18:15
> Subject: [hp8924] Re: RF Tools with 8924c?
>
>
> Â
>
>
> Hi Tim,
> I hate to say it but you may be out of luck.
> I hope the copy you got was low in cost.
> EACH copy of RF Tools is serialized to a specific unit.
> Go to Rf Tools website an root around a bit to see what
> I mean.and then before you leave take a few minutes to
> check out the videos while you are there. AWESOME!
> You may have to buy a new copy for YOUR instrument.
> However at the HAM discount of $300 a lot cheaper than the
> commercial version and with the exact same features!
> They do give HAMS a big break.
>
> Terry K9HA
>
> --- In hp8924@yahoogroups.com, Tim <tim@> wrote:
> >
> > Hi Folks,
> >
> > Is anybody running the RF Tools software with an 8924, or is it

> > only with the 8920/etc boxes?
> >
> > Thanks,
> >
> > Tim W5FN
> >
>

# 606. 11807E Opt 100

Yahoo group: hp8924
Date: 2012-01-18 01:44:05 UTC
From: rfiemiguy
Topic: 606  Message: 606

Does anyone recall a routine in Option 100 that gives an analog meter face for the received signal level? I see it in a manual but can't seem to find it when I run the program. (I have an 8920B)

# 607. Re: 11807E Opt 100

Yahoo group: hp8924
Date: 2012-01-18 02:52:47 UTC
From: willcoele@ameritech.net
Topic: 606  Message: 607

I think you simply press shift and then INCR/METER and then select on/off in the menu. At least that's how it works on the 8924.

--- In hp8924@yahoogroups.com, "rfiemiguy" <rhyolite@...> wrote:
>
> Does anyone recall a routine in Option 100 that gives an analog meter face for the received signal level? I see it in a manual but can't seem to find it when I run the program. (I have an 8920B)
>

# 608. New file uploaded to hp8924

Yahoo group: hp8924
Date: 2012-01-18 02:53:51 UTC
From: hp8924@yahoogroups.com
Topic: 31  Message: 608

```
Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hp8924
group.

File : /8924_Control_Codes.pdf
Uploaded by : willcoele@... <willcoele@...>
Description : 8924 Serial Port Control Codes

You can access this file at the URL:
http://groups.yahoo.com/group/hp8924/files/8924_Control_Codes.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

willcoele@... <willcoele@...>
```

# 609. Re: New file uploaded to hp8924

Yahoo group: hp8924
Date: 2012-01-18 03:04:36 UTC
From: willcoele@ameritech.net
Topic: 31  Message: 609

I'm still learning the the command structure using the serial port. There will be more updates to this document in the future. Hopefully with this information, I can write a Visual Basic, PC control program.

Jack WA9FVP

--- In hp8924@yahoogroups.com, hp8924@yahoogroups.com wrote:
>
>
> Hello,
>
> This email message is a notification to let you know that
> a file has been uploaded to the Files area of the hp8924
> group.
>
> File : /8924_Control_Codes.pdf
> Uploaded by : willcoele@... <willcoele@...>
> Description : 8924 Serial Port Control Codes
>
> You can access this file at the URL:
> http://groups.yahoo.com/group/hp8924/files/8924_Control_Codes.pdf
>
> To learn more about file sharing for your group, please visit:
> http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
> Regards,
>
> willcoele@... <willcoele@...>
>

# 610. External Vs Internal PAD for high power operation.

Yahoo group: hp8924
Date: 2012-01-18 18:28:37 UTC
From: rfiemiguy
Topic: 610  Message: 610

I have some thoughts about the high power option. I have a low power model and it seems that for sweeping reject filters and the like, the low power unit has greater dynamic range than when the high power option is installed. Thus an external 100 Watt 10 dB attenuator might be better option. Any thoughts? Am I correct in my assumption?

# 611. Re: 11807E Opt 100

Yahoo group: hp8924
Date: 2012-01-18 18:29:14 UTC
From: rfiemiguy
Topic: 606  Message: 611

Thanks I will try that!

--- In hp8924@yahoogroups.com, "willcoele@..." <willcoele@...> wrote:
>
>
> I think you simply press shift and then INCR/METER and then select on/off in the menu. At least that's how it works on the 8924.
>
>
>
>
> --- In hp8924@yahoogroups.com, "rfiemiguy" <rhyolite@> wrote:
> >
> > Does anyone recall a routine in Option 100 that gives an analog meter face for the received signal level? I see it in a manual but can't seem to find it when I run the program. (I have an 8920B)
> >
>

# 612. 8924 Receiver board Schematic?

Yahoo group: hp8924
Date: 2012-01-18 18:58:40 UTC
From: Tim
Topic: 610  Message: 612

Hi Folks,

Anybody have a schematic of the receiver board?

Thanks,

Tim W5FN

# 613. Re: [hp8924] External Vs Internal PAD for high power operation.

Yahoo group: hp8924
Date: 2012-01-18 22:07:07 UTC
From: Robert Atkinson
Topic: 610  Message: 613

Hi,
I agree with you. Having an external attenuator gives you the option of removing it and lowers the internal temperature. A 30dB is ideal as 1W = 1mW indicated. You can of course use any value and even an odd one is OK because you can enter the value into the 8924C to get correct readings. The only advantage I can see for an internal is the protection against accidental overload.

Robert G8RPI.

---
From: rfiemiguy <rhyolite@...>
To: hp8924@yahoogroups.com
Sent: Wednesday, 18 January 2012, 18:28
Subject: [hp8924] External Vs Internal PAD for high power operation.

I have some thoughts about the high power option. I have a low power model and it seems that for sweeping reject filters and the like, the low power unit has greater dynamic range than when the high power option is installed. Thus an external 100 Watt 10 dB attenuator might be better option. Any thoughts? Am I correct in my assumption?

# 614. Re: External Vs Internal PAD for high power operation.

Yahoo group: hp8924
Date: 2012-01-18 22:12:50 UTC
From: willcoele@ameritech.net
Topic: 610  Message: 614

It depends which port you use. If checking Duplexers the RF Gen should be connected to the Duplex port. The output should be +10 dbm or better. Depending on the power option you have, it will be attenuated at the RF port.

--- In hp8924@yahoogroups.com, "rfiemiguy" <rhyolite@...> wrote:
>
> I have some thoughts about the high power option. I have a low power model and it seems that for sweeping reject filters and the like, the low power unit has greater dynamic range than when the high power option is installed. Thus an external 100 Watt 10 dB attenuator might be better option. Any thoughts? Am I correct in my assumption?
>

# 615. Re: 8924 Receiver board Schematic?

Yahoo group: hp8924
Date: 2012-01-19 00:31:00 UTC
From: willcoele@ameritech.net
Topic: 610  Message: 615

There are no schematics available. The only thing that's close are block diagrams in the8924C Assembly Manual

--- In hp8924@yahoogroups.com, Tim <tim@...> wrote:
>
> Hi Folks,
>
> Anybody have a schematic of the receiver board?
>
> Thanks,
>
> Tim W5FN
>

# 616. RE: [hp8924] Re: 8924 Receiver board Schematic?

Yahoo group: hp8924
Date: 2012-01-19 02:03:28 UTC
From: Mike (WM4B)
Topic: 610  Message: 616

Not true. There is a CLIP for the HP8920 and the RX is the same.

Mike

WM4B

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of willcoele@...
Sent: Wednesday, January 18, 2012 7:31 PM
To: hp8924@yahoogroups.com
Subject: [hp8924] Re: 8924 Receiver board Schematic?

There are no schematics available. The only thing that's close are block diagrams in the8924C Assembly Manual

--- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com> , Tim <tim@...> wrote:
>
> Hi Folks,
>
> Anybody have a schematic of the receiver board?
>
> Thanks,
>
> Tim W5FN
>

# 617. 8920 CLIP - Includes some schematics for 8924

Yahoo group: hp8924
Date: 2012-01-19 02:59:37 UTC
From: Tim
Topic: 610  Message: 617

Hi Mike,

Thanks for the tip... couldn't find the info in the files section, but
did a search
for threads, and came up with it here. Did include the schematic for the
receiver. It's about 20meg.

http://www.home.agilent.com/upload/cmc_upload/All/8920_Component_Level_\
Information_Packet.pdf
<http://www.home.agilent.com/upload/cmc_upload/All/8920_Component_Level_Information_Packet
.pdf>

Tim W5FN

# 618. RE: [hp8924] 8920 CLIP - Includes some schematics for 8924

Yahoo group: hp8924
Date: 2012-01-19 03:07:42 UTC
From: Mike (WM4B)
Topic: 610  Message: 618

Sounds like the same file I found. It was hard to find on the group I mentioned . LOTS of stuff there.

I spent some time today tracing the path from the front of the instrument back to the Spectrum Analyzer section and making sense of it all. It was actually pretty simple once I actually had some time and some quiet to digest it all. I□m borrowing another service monitor from a friend over the weekend so I can troubleshoot mine. Still keeping my fingers crossed for a good fix that doesn□t cost me my first-born-male-cat!

73,

Mike
WM4B

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Tim
Sent: Wednesday, January 18, 2012 10:00 PM
To: hp8924@yahoogroups.com
Subject: [hp8924] 8920 CLIP - Includes some schematics for 8924

Hi Mike,

Thanks for the tip... couldn't find the info in the files section, but did a search
for threads, and came up with it here.  Did include the schematic for the receiver.  It's about 20meg.

http://www.home.agilent.com/upload/cmc_upload/All/8920_Component_Level_\
Information_Packet.pdf

Tim W5FN

# 619. Re: [hp8924] Re: RF Tools with 8924c?

Yahoo group: hp8924
Date: 2012-01-19 08:16:03 UTC
From: keith
Topic: 581  Message: 619

I bought a cheaper version but it didn’t work with the Aussie software. Now I have bought the real HP one at great expense but I haven’t tried it yet. I tried to install it on a computer with VISTA on it and it said I need SP1 or later so I installed SP1 and SP2 and then when I tried to install the RFtools it said it wasn’t compatible with that version of windows. So now for another computer.

From: rfiemiguy
Sent: Wednesday, January 18, 2012 2:38 PM
To: hp8924@yahoogroups.com
Subject: [hp8924] Re: RF Tools with 8924c?

Has anyone found a low cost USB to HPIB interface to work with RFTools (The Aussie version)?

--- In mailto:hp8924%40yahoogroups.com, "kb9jzy" <kb9jzy@...> wrote:
>
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>
> Hi Tim,
> I hate to say it but you may be out of luck.
> I hope the copy you got was low in cost.
> EACH copy of RF Tools is serialized to a specific unit.
> Go to Rf Tools website an root around a bit to see what
> I mean.and then before you leave take a few minutes to
> check out the videos while you are there. AWESOME!
> You may have to buy a new copy for YOUR instrument.
> However at the HAM discount of $300 a lot cheaper than the
> commercial version and with the exact same features!
> They do give HAMS a big break.
>
> Terry K9HA
>
> --- In mailto:hp8924%40yahoogroups.com, Tim <tim@> wrote:
> >
> > Hi Folks,
> >
> > Is anybody running the RF Tools software with an 8924, or is it
> > only with the 8920/etc boxes?
> >
> > Thanks,

> >
> > Tim W5FN
> >
>

# 620. SRAM Card for 8924

Yahoo group: hp8924
Date: 2012-01-19 16:48:21 UTC
From: Tim
Topic: 610  Message: 620

Hi All,

Will this SRAM card work on the 8924? (want to put the RF Tools on it).

Thanks,

TIm W5FN

http://www.ebay.com/itm/NEW-Eiger-2MB-SRAM-PCMCIA-CARD-WARRANTED-/220913294228?pt=LH_DefaultDomain_0&hash=item336f755b94

# 621. Re: [hp8924] SRAM Card for 8924

Yahoo group: hp8924
Date: 2012-01-19 17:50:12 UTC
From: Robert Atkinson
Topic: 610  Message: 621

Hi Tim, It should be OK. The only unknown is the size. Up to 1M is OK, the tools need 512K for everything. If you can find a 512k or 1M for less I'd go for that.

Robert G8RPI.

---
From: Tim <tim@...>
To: hp8924@yahoogroups.com
Sent: Thursday, 19 January 2012, 16:48
Subject: [hp8924] SRAM Card for 8924

Hi All,

Will this SRAM card work on the 8924? (want to put the RF Tools on it).

Thanks,

TIm W5FN

http://www.ebay.com/itm/NEW-Eiger-2MB-SRAM-PCMCIA-CARD-WARRANTED-/220913294228?pt=LH_DefaultDomain_0&hash=item336f755b94

# 622. security key

Yahoo group: hp8924
Date: 2012-01-19 22:39:48 UTC
From: tleather1
Topic: 622  Message: 622

Looking for this item or info on making one if it is possable security key
Part Number: 1258-0713

it is a parellel port dongle no longer avalible fr hp/agilent

This is needed to run Test set verify program

thanks tom

# 623. Re: External Vs Internal PAD for high power operation.

Yahoo group: hp8924
Date: 2012-01-21 03:33:44 UTC
From: willcoele@ameritech.net
Topic: 610  Message: 623

I use a 20db, 100 watt attenuator because it can handle 200 watts short term, which is 2 watts at the attenuator's output port. My 8924 is a 3 watt unit and that gives me enough headroom at 2 watts without worrying about over power protection.

I can still get -25 dbm through the attenuator which is more than enough power to measure receiver sensitivity. If I need more rf level, I just redirect the RF generator to the duplex port. The RF offset in the configuration screen doesn't apply to the duplex port.

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Hi,
> I agree with you. Having an external attenuator gives you the option of removing it and lowers the internal temperature. A 30dB is ideal as 1W = 1mW indicated. You can of course use any value and even an odd one is OK because you can enter the value into the 8924C to get correct readings. The only advantage I can see for an internal is the protection against accidental overload.
>
> Robert G8RPI.
>
>
>
> _____
> From: rfiemiguy <rhyolite@...>
> To: hp8924@yahoogroups.com
> Sent: Wednesday, 18 January 2012, 18:28
> Subject: [hp8924] External Vs Internal PAD for high power operation.
>
>
> Â
> I have some thoughts about the high power option. I have a low power model and it seems that for sweeping reject filters and the like, the low power unit has greater dynamic range than when the high power option is installed. Thus an external 100 Watt 10 dB attenuator might be better option. Any thoughts? Am I correct in my assumption?
>

# 624. Re: RF Tools with 8924c?

Yahoo group: hp8924
Date: 2012-01-21 03:43:24 UTC
From: willcoele@ameritech.net
Topic: 581  Message: 624

What is this RF tools and what does it do when connected to the 8924? I assume it uses HPBasic commands via the HPIB port and you need an HPIB to serial or USB adapter.

--- In hp8924@yahoogroups.com, "keith" <oldmill@...> wrote:
>
> I bought a cheaper version but it didnâ□□t work with the Aussie software. Now I have bought the real HP one at great expense but I havenâ□□t tried it yet. I tried to install it on a computer with VISTA on it and it said I need SP1 or later so I installed SP1 and SP2 and then when I tried to install the RFtools it said it wasnâ□□t compatible with that version of windows. So now for another computer.
>
> From: rfiemiguy
> Sent: Wednesday, January 18, 2012 2:38 PM
> To: hp8924@yahoogroups.com
> Subject: [hp8924] Re: RF Tools with 8924c?
>
>
> Has anyone found a low cost USB to HPIB interface to work with RFTools (The Aussie version)?
>
> --- In mailto:hp8924%40yahoogroups.com, "kb9jzy" <kb9jzy@> wrote:
> >
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> >
> > Hi Tim,
> > I hate to say it but you may be out of luck.
> > I hope the copy you got was low in cost.
> > EACH copy of RF Tools is serialized to a specific unit.
> > Go to Rf Tools website an root around a bit to see what
> > I mean.and then before you leave take a few minutes to
> > check out the videos while you are there. AWESOME!
> > You may have to buy a new copy for YOUR instrument.
> > However at the HAM discount of $300 a lot cheaper than the
> > commercial version and with the exact same features!
> > They do give HAMS a big break.
> >
> > Terry K9HA
> >
> > --- In mailto:hp8924%40yahoogroups.com, Tim <tim@> wrote:
> > >

> > > Hi Folks,
> > >
> > > Is anybody running the RF Tools software with an 8924, or is it
> > > only with the 8920/etc boxes?
> > >
> > > Thanks,
> > >
> > > Tim W5FN
> > >
> >
>

# 625. Re: [hp8924] Re: RF Tools with 8924c?

Yahoo group: hp8924
Date: 2012-01-21 10:25:26 UTC
From: Robert Atkinson
Topic: 581  Message: 625

Hi Will,
There are two "RF Tools" for the 8920B/8924. The original HP 11807E Opt 100 (Opt. 100 is important other options are cell phone testing etc). and  the more recent Measurement Innovations (MI) "RF Tools"  Both provide facilities such as swept gain, return loss, and cable fault location measurements (with an external return loss bridge), Intermodulation measurement and Receiver (scanner) functions The GPIB connectivity is screen capture and part of the MI version only. There are other programs available to do this for free. The HP software runs on the inturnal IBasic controller (the card contains a text file of the program). I don't know if the MI runs internally or externally. The HP one can be found for free as a binary image (you need an SRAM card to load it) and MI offer an amateur version of theirs for $290AUS, but you need the Agilent GPIB USB adaptor at $550AUS (there are Chinese clones on ebay but they may not work).
In short they add Scalar Network analysis and Scanner functionality.
See < http://cp.literature.agilent.com/litweb/pdf/11807-90141.pdf >, < http://cp.literature.agilent.com/litweb/pdf/5968-1379E.pdf > and < http://www.measurement.net.au/c/25306/1/rf-tools-software.html >

HTH,
Robert G8RPI.

---
From: "willcoele@..." <willcoele@...>
To: hp8924@yahoogroups.com
Sent: Saturday, 21 January 2012, 3:43
Subject: [hp8924] Re: RF Tools with 8924c?

What is this RF tools and what does it do when connected to the 8924? I assume it uses HPBasic commands via the HPIB port and you need an HPIB to serial or USB adapter.

--- In hp8924@yahoogroups.com, "keith" <oldmill@...> wrote:
>
> I bought a cheaper version but it didnâ€™t work with the Aussie software. Now I have bought the real HP one at great expense but I havenâ€™t tried it yet. I tried to install it on a computer with VISTA on it and it said I need SP1 or later so I installed SP1 and SP2 and then when I tried to install the RFtools it said it wasnâ€™t compatible with that version of windows. So now for another computer.
>
> From: rfiemiguy
> Sent: Wednesday, January 18, 2012 2:38 PM
> To: hp8924@yahoogroups.com
> Subject: [hp8924] Re: RF Tools with 8924c?
>
>
> Has anyone found a low cost USB to HPIB interface to work with RFTools (The Aussie version)?
>

> --- In mailto:hp8924%40yahoogroups.com, "kb9jzy" <kb9jzy@> wrote:
> >
> >
> >
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> >
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> >
> > Hi Tim,
> > I hate to say it but you may be out of luck.
> > I hope the copy you got was low in cost.
> > EACH copy of RF Tools is serialized to a specific unit.
> > Go to Rf Tools website an root around a bit to see what
> > I mean.and then before you leave take a few minutes to
> > check out the videos while you are there. AWESOME!
> > You may have to buy a new copy for YOUR instrument.
> > However at the HAM discount of $300 a lot cheaper than the
> > commercial version and with the exact same features!
> > They do give HAMS a big break.
> >
> > Terry K9HA
> >
> > --- In mailto:hp8924%40yahoogroups.com, Tim <tim@> wrote:
> > >
> > > Hi Folks,
> > >
> > > Is anybody running the RF Tools software with an 8924, or is it
> > > only with the 8920/etc boxes?
> > >
> > > Thanks,
> > >
> > > Tim W5FN
> > >
> >
>

# 626. Re: RF Tools with 8924c

Yahoo group: hp8924
Date: 2012-01-21 16:07:17 UTC
From: willcoele@ameritech.net
Topic: 581  Message: 626

Where can I find the free version? I have a hunch that there's an Ibasic program that allows PC software to communicate to the 8924 via the serial port. I already mapped the serial port control codes and uploaded a document in the files section but I'm having problems retrieving data from the 8924 via the serial port. There is a screen capture control code that sends a bitmapped file to the PC but I need a way to get data from selected fields in each screen. I think an Ibasic program will do that. The purpose of this is to write a visual basic program that will control the 8924 via the serial port with out having to purchase the GPIB adapter.

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Hi Will,
> There are two "RF Tools" for the 8920B/8924. The original HP 11807E Opt 100 (Opt. 100 is important other options are cell phone testing etc). andÂ  the more recent Measurement Innovations (MI) "RF Tools"Â  Both provide facilities such as swept gain, return loss, and cable fault location measurements (with an external return loss bridge), Intermodulation measurement and Receiver (scanner) functions The GPIB connectivity is screen capture and part of the MI version only. There are other programs available to do this for free. The HP software runs on the inturnal IBasic controller (the card contains a text file of the program). I don't know if the MI runs internally or externally. The HP one can be found for free as a binary image (you need an SRAM card to load it) and MI offer an amateur version of theirs for $290AUS, but you need the Agilent GPIB USB adaptor at $550AUS (there are Chinese clones on ebay but they may not work).
> In short they add Scalar Network analysis and Scanner functionality.
> See < http://cp.literature.agilent.com/litweb/pdf/11807-90141.pdf >, < http://cp.literature.agilent.com/litweb/pdf/5968-1379E.pdf > and < http://www.measurement.net.au/c/25306/1/rf-tools-software.html >
>
>

# 627. Re: [hp8924] Re: RF Tools with 8924c

Yahoo group: hp8924
Date: 2012-01-21 17:18:46 UTC
From: Robert Atkinson
Topic: 581  Message: 627

Hi,
I'm not avertising it on group posts, but there is a copy in the files section ;-).Its called 11807Eopt100.bin I don't think Agilet has a problem with non-profit distribution of unsupported software, but would hate to loose it if Yahoo pulled it because they were not sure. You will also need a SRAM PCMCIA card (NOT flash or a CF adaptor) an older laptop with a PCMCIA card slot and a trial copy of Memeory Card Explorer software (also in files). If you open the BIN file with a text editor you can see the IBASIC listing. You could type it in from a PC acting as a terminal but it would take a while! If you have a PC with an GPIB/HPIB interface there is freeware that allows it to emulate an external disk drive for the 8924C. You could then use the built in utilities to load the program. I've not tried this and you would have to edit the BIN file to suit.
An SRAM card is easier. If you have trouble with this I could put it on a card for you.

Regards,
Robert G8RPI.

---
From: "willcoele@..." <willcoele@...>
To: hp8924@yahoogroups.com
Sent: Saturday, 21 January 2012, 16:07
Subject: [hp8924] Re: RF Tools with 8924c

Where can I find the free version? I have a hunch that there's an Ibasic program that allows PC software to communicate to the 8924 via the serial port. I already mapped the serial port control codes and uploaded a document in the files section but I'm having problems retrieving data from the 8924 via the serial port. There is a screen capture control code that sends a bitmapped file to the PC but I need a way to get data from selected fields in each screen. I think an Ibasic program will do that. The purpose of this is to write a visual basic program that will control the 8924 via the serial port with out having to purchase the GPIB adapter.

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Hi Will,
> There are two "RF Tools" for the 8920B/8924. The original HP 11807E Opt 100 (Opt. 100 is important other options are cell phone testing etc). andÂ  the more recent Measurement Innovations (MI) "RF Tools"Â  Both provide facilities such as swept gain, return loss, and cable fault location measurements (with an external return loss bridge), Intermodulation measurement and Receiver (scanner) functions The GPIB connectivity is screen capture and part of the MI version only. There are other programs available to do this for free. The HP software runs on the inturnal IBasic controller (the card contains a text file of the program). I don't know if the MI runs internally or externally. The HP one can be found for free as a binary image (you need an SRAM card to load it) and MI offer an amateur version of theirs for $290AUS, but you need the Agilent GPIB USB adaptor at $550AUS (there are Chinese clones on ebay but they may not work).
> In short they add Scalar Network analysis and Scanner functionality.

> See < http://cp.literature.agilent.com/litweb/pdf/11807-90141.pdf >, <
http://cp.literature.agilent.com/litweb/pdf/5968-1379E.pdf > and <
http://www.measurement.net.au/c/25306/1/rf-tools-software.html >
>
>

# 628. Re: RF Tools with 8924c

Yahoo group: hp8924
Date: 2012-01-21 18:05:12 UTC
From: willcoele@ameritech.net
Topic: 581  Message: 628

It's copied to a 1MB sram card but I'm having trouble downloading it into the 8924.

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Hi,
> I'm not avertising it on group posts, but there is a copy in the files section ;-).Its calledÂ 11807Eopt100.bin I don't think Agilet has a problem with non-profit distribution of unsupported software, but would hate to loose it if Yahoo pulled it because they were not sure. You will also need a SRAM PCMCIA card (NOT flash or a CF adaptor) an older laptop with a PCMCIA card slot and a trial copy of Memeory Card Explorer software (also in files). If you open the BIN file with a text editor you can see the IBASIC listing. You could type it in from a PC acting as a terminal but it would take a while! If you have a PC with an GPIB/HPIB interface there is freeware that allows it to emulate an external disk drive for the 8924C. You could then use the built in utilities to load the program. I've not tried this and you would have to edit the BIN file to suit.
> An SRAM card is easier. If you have trouble with this I could put it on a card for you.
>
> Regards,
> Robert G8RPI.
>
>
> _____
> From: "willcoele@..." <willcoele@...>
> To: hp8924@yahoogroups.com
> Sent: Saturday, 21 January 2012, 16:07
> Subject: [hp8924] Re: RF Tools with 8924c
>
>
> Â
> Where can I find the free version? I have a hunch that there's an Ibasic program that allows PC software to communicate to the 8924 via the serial port. I already mapped the serial port control codes and uploaded a document in the files section but I'm having problems retrieving data from the 8924 via the serial port. There is a screen capture control code that sends a bitmapped file to the PC but I need a way to get data from selected fields in each screen. I think an Ibasic program will do that. The purpose of this is to write a visual basic program that will control the 8924 via the serial port with out having to purchase the GPIB adapter.
>
> --- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@> wrote:
> >
> > Hi Will,
> > There are two "RF Tools" for the 8920B/8924. The original HP 11807E Opt 100 (Opt. 100 is important other options are cell phone testing etc). andÃ□Â  the more recent Measurement Innovations (MI) "RF Tools"Ã□Â  Both provide facilities such as swept gain, return loss, and cable fault location measurements (with an external return loss bridge), Intermodulation measurement and Receiver (scanner) functions The GPIB connectivity is screen capture and part of the MI version only. There are other programs available to do this for free. The HP software runs on the inturnal IBasic controller (the card contains a text file of the program). I don't know if the MI runs internally or externally. The HP one can be found for free as a binary image (you need an SRAM card to load it) and MI offer an amateur version of theirs

for $290AUS, but you need the Agilent GPIB USB adaptor at $550AUS (there are Chinese clones on ebay but they may not work).
> > In short they add Scalar Network analysis and Scanner functionality.
> > See < http://cp.literature.agilent.com/litweb/pdf/11807-90141.pdf >, <
http://cp.literature.agilent.com/litweb/pdf/5968-1379E.pdf > and <
http://www.measurement.net.au/c/25306/1/rf-tools-software.html >
> >
> >
>

# 629. Re: [hp8924] Re: RF Tools with 8924c

Yahoo group: hp8924
Date: 2012-01-21 21:21:37 UTC
From: Robert Atkinson
Topic: 581  Message: 629

Hi,
It runs from te card. You go to config/tools select the card and then pick the program from the menu on the right and then select run. There are instructions in the link i sent earlier.

Robert.

_____
From: "willcoele@..." <willcoele@...>
To: hp8924@yahoogroups.com
Sent: Saturday, 21 January 2012, 18:05
Subject: [hp8924] Re: RF Tools with 8924c

It's copied to a 1MB sram card but I'm having trouble downloading it into the 8924.

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Hi,
> I'm not avertising it on group posts, but there is a copy in the files section ;-).Its calledÂ 11807Eopt100.bin I don't think Agilet has a problem with non-profit distribution of unsupported software, but would hate to loose it if Yahoo pulled it because they were not sure. You will also need a SRAM PCMCIA card (NOT flash or a CF adaptor) an older laptop with a PCMCIA card slot and a trial copy of Memeory Card Explorer software (also in files). If you open the BIN file with a text editor you can see the IBASIC listing. You could type it in from a PC acting as a terminal but it would take a while! If you have a PC with an GPIB/HPIB interface there is freeware that allows it to emulate an external disk drive for the 8924C. You could then use the built in utilities to load the program. I've not tried this and you would have to edit the BIN file to suit.
> An SRAM card is easier. If you have trouble with this I could put it on a card for you.
>
> Regards,
> Robert G8RPI.
>
>
> _____
> From: "willcoele@..." <willcoele@...>
> To: hp8924@yahoogroups.com
> Sent: Saturday, 21 January 2012, 16:07
> Subject: [hp8924] Re: RF Tools with 8924c
>
>
> Â
> Where can I find the free version? I have a hunch that there's an Ibasic program that allows PC software to communicate to the 8924 via the serial port. I already mapped the serial port control codes and uploaded a document in the files section but I'm having problems retrieving data from the 8924 via the serial port. There is a screen capture

control code that sends a bitmapped file to the PC but I need a way to get data from selected fields in each screen. I think an Ibasic program will do that. The purpose of this is to write a visual basic program that will control the 8924 via the serial port with out having to purchase the GPIB adapter.
>
> --- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@> wrote:
> >
> > Hi Will,
> > There are two "RF Tools" for the 8920B/8924. The original HP 11807E Opt 100 (Opt. 100 is important other options are cell phone testing etc). andÃ‚Â  the more recent Measurement Innovations (MI) "RF Tools"Ã‚Â  Both provide facilities such as swept gain, return loss, and cable fault location measurements (with an external return loss bridge), Intermodulation measurement and Receiver (scanner) functions The GPIB connectivity is screen capture and part of the MI version only. There are other programs available to do this for free. The HP software runs on the inturnal IBasic controller (the card contains a text file of the program). I don't know if the MI runs internally or externally. The HP one can be found for free as a binary image (you need an SRAM card to load it) and MI offer an amateur version of theirs for $290AUS, but you need the Agilent GPIB USB adaptor at $550AUS (there are Chinese clones on ebay but they may not work).
> > In short they add Scalar Network analysis and Scanner functionality.
> > See < http://cp.literature.agilent.com/litweb/pdf/11807-90141.pdf >, < http://cp.literature.agilent.com/litweb/pdf/5968-1379E.pdf > and < http://www.measurement.net.au/c/25306/1/rf-tools-software.html >
> >
> >
>

# 630. Re: RF Tools with 8924c

Yahoo group: hp8924
Date: 2012-01-21 23:27:04 UTC
From: willcoele@ameritech.net
Topic: 581  Message: 630

Following the instructions in the Opt 100 users guide, I copied the file to a 1MB card but when I select CARD in the TESTS screen, and move to the "Select Proceedure Filename", There are no proceedures that are listed.

I don't see a field named "TOOLS" in the TESTS or the CONFIG screen.

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Hi,
> It runs from te card. You go to config/tools select the card and then pick the programÂ from the menu on the right and then select run. There are instructions in the link i sent earlier.
>
> Robert.
>
>

# 631. Re: RF Tools with 8924c

Yahoo group: hp8924
Date: 2012-01-21 23:34:29 UTC
From: willcoele@ameritech.net
Topic: 581  Message: 631

After several tries. It finally works.

Thank You

Jack WA9FVP
Willco Electroics.

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Hi,
> It runs from te card. You go to config/tools select the card and then pick the programÂ  from the menu on the right and then select run. There are instructions in the link i sent earlier.
>
> Robert.
>
>
>
> _____
> From: "willcoele@..." <willcoele@...>
> To: hp8924@yahoogroups.com
> Sent: Saturday, 21 January 2012, 18:05
> Subject: [hp8924] Re: RF Tools with 8924c
>
>
> Â
> It's copied to a 1MB sram card but I'm having trouble downloading it into the 8924.
>
> --- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@> wrote:
> >
> > Hi,
> > I'm not avertising it on group posts, but there is a copy in the files section ;-).Its calledÃ□Â 11807Eopt100.bin I don't think Agilet has a problem with non-profit distribution of unsupported software, but would hate to loose it if Yahoo pulled it because they were not sure. You will also need a SRAM PCMCIA card (NOT flash or a CF adaptor) an older laptop with a PCMCIA card slot and a trial copy of Memeory Card Explorer software (also in files). If you open the BIN file with a text editor you can see the IBASIC listing. You could type it in from a PC acting as a terminal but it would take a while! If you have a PC with an GPIB/HPIB interface there is freeware that allows it to emulate an external disk drive for the 8924C. You could then use the built in utilities to load the program. I've not tried this and you would have to edit the BIN file to suit.
> > An SRAM card is easier. If you have trouble with this I could put it on a card for you.
> >
> > Regards,
> > Robert G8RPI.
> >
> >
> > _____

> > From: "willcoele@" <willcoele@>
> > To: hp8924@...m
> > Sent: Saturday, 21 January 2012, 16:07
> > Subject: [hp8924] Re: RF Tools with 8924c
> >
> >
> > Ã□Â
> > Where can I find the free version? I have a hunch that there's an Ibasic program that allows PC software to communicate to the 8924 via the serial port. I already mapped the serial port control codes and uploaded a document in the files section but I'm having problems retrieving data from the 8924 via the serial port. There is a screen capture control code that sends a bitmapped file to the PC but I need a way to get data from selected fields in each screen. I think an Ibasic program will do that. The purpose of this is to write a visual basic program that will control the 8924 via the serial port with out having to purchase the GPIB adapter.
> >
> > --- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@> wrote:
> > >
> > > Hi Will,
> > > There are two "RF Tools" for the 8920B/8924. The original HP 11807E Opt 100 (Opt. 100 is important other options are cell phone testing etc). andÃ□â□□Ã□Â  the more recent Measurement Innovations (MI) "RF Tools"Ã□â□□Ã□Â  Both provide facilities such as swept gain, return loss, and cable fault location measurements (with an external return loss bridge), Intermodulation measurement and Receiver (scanner) functions The GPIB connectivity is screen capture and part of the MI version only. There are other programs available to do this for free. The HP software runs on the inturnal IBasic controller (the card contains a text file of the program). I don't know if the MI runs internally or externally. The HP one can be found for free as a binary image (you need an SRAM card to load it) and MI offer an amateur version of theirs for $290AUS, but you need the Agilent GPIB USB adaptor at $550AUS (there are Chinese clones on ebay but they may not work).
> > > In short they add Scalar Network analysis and Scanner functionality.
> > > See < http://cp.literature.agilent.com/litweb/pdf/11807-90141.pdf >, < http://cp.literature.agilent.com/litweb/pdf/5968-1379E.pdf > and < http://www.measurement.net.au/c/25306/1/rf-tools-software.html >
> > >
> > >
> >
>

# 632. Re: [hp8924] Re: RF Tools with 8924c

Yahoo group: hp8924
Date: 2012-01-22 08:41:37 UTC
From: Robert Atkinson
Topic: 581  Message: 632

Hi Jack,
That's good. I wasn't deliberatly ignoring your message, I'd gone to bed.

Robert.

_____
From: "willcoele@ameritech.net" <willcoele@...>
To: hp8924@yahoogroups.com
Sent: Saturday, 21 January 2012, 23:34
Subject: [hp8924] Re: RF Tools with 8924c

After several tries. It finally works.

Thank You

Jack WA9FVP
Willco Electroics.

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Hi,
> It runs from te card. You go to config/tools select the card and then pick the programÂ from the menu on the right and then select run. There are instructions in the link i sent earlier.
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> Robert.
>
>
>
> _____
> From: "willcoele@..." <willcoele@...>
> To: hp8924@yahoogroups.com
> Sent: Saturday, 21 January 2012, 18:05
> Subject: [hp8924] Re: RF Tools with 8924c
>
>
> Â
> It's copied to a 1MB sram card but I'm having trouble downloading it into the 8924.
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> --- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@> wrote:
> >
> > Hi,
> > I'm not avertising it on group posts, but there is a copy in the files section ;-).Its calledÃ,Â 11807Eopt100.bin I don't think Agilet has a problem with non-profit distribution of unsupported software, but would hate to loose it if Yahoo pulled it because they were not sure. You will also need a SRAM PCMCIA card (NOT flash or a CF adaptor) an older laptop

with a PCMCIA card slot and a trial copy of Memeory Card Explorer software (also in files). If you open the BIN file with a text editor you can see the IBASIC listing. You could type it in from a PC acting as a terminal but it would take a while! If you have a PC with an GPIB/HPIB interface there is freeware that allows it to emulate an external disk drive for the 8924C. You could then use the built in utilities to load the program. I've not tried this and you would have to edit the BIN file to suit.
> > An SRAM card is easier. If you have trouble with this I could put it on a card for you.
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> > From: "willcoele@" <willcoele@>
> > To: hp8924@yahoogroups.com
> > Sent: Saturday, 21 January 2012, 16:07
> > Subject: [hp8924] Re: RF Tools with 8924c
> >
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> > Ã‚Â
> > Where can I find the free version? I have a hunch that there's an Ibasic program that allows PC software to communicate to the 8924 via the serial port. I already mapped the serial port control codes and uploaded a document in the files section but I'm having problems retrieving data from the 8924 via the serial port. There is a screen capture control code that sends a bitmapped file to the PC but I need a way to get data from selected fields in each screen. I think an Ibasic program will do that. The purpose of this is to write a visual basic program that will control the 8924 via the serial port with out having to purchase the GPIB adapter.
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> > --- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@> wrote:
> > >
> > > Hi Will,
> > > There are two "RF Tools" for the 8920B/8924. The original HP 11807E Opt 100 (Opt. 100 is important other options are cell phone testing etc). andÃƒâ€šÃ‚Â  the more recent Measurement Innovations (MI) "RF Tools"Ãƒâ€šÃ‚Â  Both provide facilities such as swept gain, return loss, and cable fault location measurements (with an external return loss bridge), Intermodulation measurement and Receiver (scanner) functions The GPIB connectivity is screen capture and part of the MI version only. There are other programs available to do this for free. The HP software runs on the inturnal IBasic controller (the card contains a text file of the program). I don't know if the MI runs internally or externally. The HP one can be found for free as a binary image (you need an SRAM card to load it) and MI offer an amateur version of theirs for $290AUS, but you need the Agilent GPIB USB adaptor at $550AUS (there are Chinese clones on ebay but they may not work).
> > > In short they add Scalar Network analysis and Scanner functionality.
> > > See < http://cp.literature.agilent.com/litweb/pdf/11807-90141.pdf >, < http://cp.literature.agilent.com/litweb/pdf/5968-1379E.pdf > and < http://www.measurement.net.au/c/25306/1/rf-tools-software.html >
> > >
> > >
> >

>

# 633. Re: RF Tools with 8924c

Yahoo group: hp8924
Date: 2012-01-22 13:48:36 UTC
From: willcoele@ameritech.net
Topic: 581  Message: 633

While executing the Ibasic utilities, with my laptop connected to the serial port running the BTS terminal program, I noticed that text is sent to the laptop.

I was able to copy RF Tools to RAM but there's not enough RAM memory for all of the utilities included in the file. My favorite is the save/recall utility. You can save all of your setups at once without jumping between RAM and CARD. I'm still searching for a way to get data and cursor position via the serial port.

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Hi Jack,
> That's good. I wasn't deliberatly ignoring your message, I'd gone to bed.
>
> Robert.
>

# 634. Re: [hp8924] Re: RF Tools with 8924c

Yahoo group: hp8924
Date: 2012-01-22 15:25:31 UTC
From: Ralph Mowery
Topic: 581  Message: 634

Could you give  more detail as to how you are able to run the RF tools from the laptop ?
I am assuming it is the HP RF Tools that is in the files section and not the comercial version from the third party.

I have the serial port from the 6 pin  jack tha looks similar to an 8 pin eithernet cable going to the laptop and it works as I can print the screen to the BTS utilities to the laptop.

The RF tools file I have is the bit image file.  Does that need to be changed somehow on the laptop to work through the serial port ?  If so , how ?

--- On Sun, 1/22/12, willcoele@ameritech.net <willcoele@...> wrote:

From: willcoele@... <willcoele@...>
Subject: [hp8924] Re: RF Tools with 8924c
To: hp8924@yahoogroups.com
Date: Sunday, January 22, 2012, 8:48 AM

While executing the Ibasic utilities, with my laptop connected to the serial port running the BTS terminal program, I noticed that text is sent to the laptop.

I was able to copy RF Tools to RAM but there's not enough RAM memory for all of the utilities included in the file.  My favorite is the save/recall utility.  You can save all of your setups at once without jumping between RAM and CARD.  I'm still searching for a way to get data and cursor position via the serial port.

# 635. Re: RF Tools with 8924c

Yahoo group: hp8924
Date: 2012-01-22 17:22:28 UTC
From: willcoele@ameritech.net
Topic: 581  Message: 635

Rf tools runs on the 8924. To load the software into the 8924, you need a PCMCIA card, a laptop with a PCMCIA slot or an adapter to read and write to the card. The Memory Card Explore Utility in the files section is PC software that reads and writes to the PCMCIA card.

There's a document that I uploaded that list control codes that you can send from your laptop using the BTS utility, terminal screen.

--- In hp8924@yahoogroups.com, Ralph Mowery <ku4pt@...> wrote:
>
> Could you give  more detail as to how you are able to run the RF tools from the laptop ?
> I am assuming it is the HP RF Tools that is in the files section and not the comercial version from the third party.
>
> I have the serial port from the 6 pin  jack tha looks similar to an 8 pin eithernet cable going to the laptop and it works as I can print the screen to the BTS utilities to the laptop.
>
> The RF tools file I have is the bit image file.  Does that need to be changed somehow on the laptop to work through the serial port ?  If so , how ?
>
>
> --- On Sun, 1/22/12, willcoele@... <willcoele@...> wrote:
>
>
> From: willcoele@... <willcoele@...>
> Subject: [hp8924] Re: RF Tools with 8924c
> To: hp8924@yahoogroups.com
> Date: Sunday, January 22, 2012, 8:48 AM
>
>
> While executing the Ibasic utilities, with my laptop connected to the serial port running the BTS terminal program, I noticed that text is sent to the laptop.
>
> I was able to copy RF Tools to RAM but there's not enough RAM memory for all of the utilities included in the file.  My favorite is the save/recall utility.  You can save all of your setups at once without jumping between RAM and CARD.  I'm still searching for a way to get data and cursor position via the serial port.
>

# 636. Re: Using the Tracking Generator Offset

Yahoo group: hp8924
Date: 2012-01-23 21:27:39 UTC
From: jistabout
Topic: 223  Message: 636

I know that this thread is quite old but.....thanks for sharing :)

- Darrell/KA7BTV

# 637. Re: Using the Tracking Generator Offset

Yahoo group: hp8924
Date: 2012-01-24 14:11:58 UTC
From: willcoele@ameritech.net
Topic: 223  Message: 637

I recently adjusted the IF filters in radio using the same method. Except this time, because the Radio down converts, I had to reverse the RF Gen tracking. To reverse the sweep, in the spectrum analyzer screen, go to the generator menu and change the Sweep from normal to reverse. The generator was sweeping above 30 MHz in the opposite direction (from high to low) but the spectrum analyzer was sweeping from low to high at 10.7 MHz. Keep in mind that when you down convert, the frequency spectrum is flipped.

--- In hp8924@yahoogroups.com, "jistabout" <darrell@...> wrote:
>
> I know that this thread is quite old but.....thanks for sharing :)
>
> - Darrell/KA7BTV
>

# 638. Spectrum Analyzer ~ 12 dB off: WAS HP-8924C 60 Watt Upgrade from eBay

Yahoo group: hp8924
Date: 2012-01-29 00:36:15 UTC
From: Mike (WM4B)
Topic: 638  Message: 638

Dan from rfe_toys sent me yet another set of CAL data which I finally go to upload yesterday. As predicted, it made no difference; the Spectrum Analyzer is still about 12 dB off, regardless of whether of port.

I ran the diagnostics and it fails the following:

Spectrum Analyzer Vertical Sensitivity Test:

10 dB/Div Absolute 1.538**
2 dB/Div Relative .365**
1 dB/Div Relative .043**

Receiver Assembly Test:

Downconverter w/ Spectrum Analyzer
100 MHz 614.3 MHz IF -12.247
500 MHz 114.3 MHz IF -12.215
900 MHz 114.3 MHz IF -11.982

I also noticed then when I do a duplex test in loopback (feed the signal generator back to the test set), with 1000 Hz tone & 3 KHz FM deviation, the decoded tone is choppy and broken.

I replaced U502, the First RF Amp in the receiver module (which happens to be a 12dB amp) and there was no change.

My gut tells me it's in the Receiver module (and the downconverter tests SEEM to suggest that as well) but I'm kinda stuck at this point. I have access to an -8920, but only on the weekends, so troubleshooting time is minimal.

Any suggestions? Anybody wanna plug my Receiver Module and Spectrum Analyzer Module into a known-good test set and check them for me?

73,

Mike

WM4B

From: hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>
[mailto:hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com> ] On Behalf
Of
Mike (WM4B)
Sent: Sunday, January 15, 2012 12:54 AM
To: hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>
Subject: RE: [hp8924] Re: HP-8924C 60 Watt Upgrade from eBay

Got the new calibration data from the seller yesterday and got it uploaded. Seemed to go okay this time.

Tonight I was playing with the instrument and connected my signal generator to the -8924 Spectrum Analyzer input. With the signal generator set at 0 dBm, the Spectrum Analyzer showed about -13 dBm. I followed this up with a loopback test (-8924 duplex out to antenna in) and go pretty similar results. The delta tracks at about 13 dB regardless of the setting of the generator output or frequency. Several different cables were tried.

73,
Mike
WM4B

# 639. No joy in Mudville

Yahoo group: hp8924
Date: 2012-01-29 04:43:43 UTC
From: Tim
Topic: 610  Message: 639

Hi Mike,

Sorry to hear the bad news.

If you want to send me your receiver, I'll plug it in here
& see what happens.

Let me know.

Tim W5FN

# 640. Re: Spectrum Analyzer ~ 12 dB off: WAS HP-8924C 60 Watt Upgrade from eBay

Yahoo group: hp8924
Date: 2012-01-29 14:26:36 UTC
From: willcoele@ameritech.net
Topic: 638  Message: 640

I remember back when the firmware in my 8924C was running Bata software. There was an Ibasic utility that browsed registers and you can modify the contents. I now upgraded the firmware to 6.33 but I don't remember the name if the utility or if it even exist in the the new firmware. I'm not near my 8924 and I won't have time to check the tests screen today. I remember there were registers that contained the calibration data that you can modify manually. The register names are abbriviated and it would take some time to find the correct ones. Before you modify the register it's always a good idea to write down the original value

Jack WA9FVP
Sent from my iPad

--- In hp8924@yahoogroups.com, "Mike \(WM4B\)" <mwbesemer@...> wrote:
>
> Dan from rfe_toys sent me yet another set of CAL data which I finally go to
> upload yesterday. As predicted, it made no difference; the Spectrum
> Analyzer is still about 12 dB off, regardless of whether of port.
>
>
>
> I ran the diagnostics and it fails the following:
>
>

# 641. CLIP Files Uploaded

Yahoo group: hp8924
Date: 2012-01-30 05:14:59 UTC
From: willcoele@ameritech.net
Topic: 641  Message: 641

I spent several hours deleating blank pages, indexing and correcting bookmarks for the Component Level Information Packet. I was able to reduce the file size to 20 Mbytes. Unfortunately Yahoo Groups only allows 5.2 Mbyte uploads so I had the break up the file to smaller ones that are less than 5.2 Mbytes.

The original CLIP file had broken bookmarks, was very difficult to navigate and the titles we're nondiscriptive. I uploaded the files in the Files section where you will find a folder containing 5 files.

Jack WA9FVP
Sent from my iPad.

# 642. SRAM Cards and Battery Replacement

Yahoo group: hp8924
Date: 2012-01-31 00:49:01 UTC
From: jsternmd
Topic: 642  Message: 642

All of the recommended SRAM cards for the 8924C have lithium batteries, how does one change the battery without losing the card data?
tnx
jerry

# 643. Re: [hp8924] SRAM Cards and Battery Replacement

Yahoo group: hp8924
Date: 2012-01-31 01:08:28 UTC
From: Tim
Topic: 642  Message: 643

Hi Jerry,

I just bought a 2mb card off of e-bay, and it uses small lithium battery. The instructions say to make sure and change the battery within 20 seconds of card removal to assure data retention.

Tim

On 1/30/2012 6:49 PM, jsternmd wrote:

All of the recommended SRAM cards for the 8924C have lithium batteries, how does one change the battery without losing the card data?
tnx
jerry

# 644. Re: [hp8924] SRAM Cards and Battery Replacement

Yahoo group: hp8924
Date: 2012-01-31 07:26:34 UTC
From: Robert Atkinson
Topic: 642  Message: 644

Hi,
Most of these have access to the battery from the end of the card. Easy answer is to change the battery with the card plugged in and the 8924C on. (Leave the write protect switch set to protect). You have of course backed up your card to a bin file using Memory Card Explorer (trial version)? It's best to leave the card plugged into the 8924C. While external power is supplied the internal battery is not being drained. Some units (don't know about 8924C) keep power on the SRAM card even when the unit is in standby.

Robert G8RPI.

---
From: jsternmd <jsternmd@...>
To: hp8924@yahoogroups.com
Sent: Tuesday, 31 January 2012, 0:49
Subject: [hp8924] SRAM Cards and Battery Replacement

All of the recommended SRAM cards for the 8924C have lithium batteries, how does one change the battery without losing the card data?
tnx
jerry

# 645. Re: SRAM Cards and Battery Replacement

Yahoo group: hp8924
Date: 2012-01-31 13:57:50 UTC
From: willcoele@ameritech.net
Topic: 642  Message: 645

I have two 4 Mb cards that contains the HP firmware. They don't have a battery access. I assume they are ROM cards and there are no batteries inside the cards.

Jack WA9FVP
Sent from my iPad.

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Hi,
> Most of these have access to the battery from the end of the card. Easy answer is to change the battery with the card plugged in and the 8924C on. (Leave the write protect switch set to protect). You have of course backed up your card to a bin file using Memory Card Explorer (trial version)? It's best to leave the card plugged into the 8924C. While external power is supplied the internal battery is not being drained. Some units (don't know about 8924C) keep power on the SRAM card even when the unit is in standby.
> Â
> Robert G8RPI.
>
>
> _____
> From: jsternmd <jsternmd@...>
> To: hp8924@yahoogroups.com
> Sent: Tuesday, 31 January 2012, 0:49
> Subject: [hp8924] SRAM Cards and Battery Replacement
>
>
> Â
> All of the recommended SRAM cards for the 8924C have lithium batteries, how does one change the battery without losing the card data?
> tnx
> jerry
>

# 646. Re: [hp8924] Re: SRAM Cards and Battery Replacement

Yahoo group: hp8924
Date: 2012-01-31 14:58:22 UTC
From: Tim
Topic: 642  Message: 646

Maybe a rechargeable lithium inside?

Tim W5FN

On 1/31/2012 7:57 AM, willcoele@... wrote:
>
>
>
> I have two 4 Mb cards that contains the HP firmware. They don't have a
> battery access. I assume they are ROM cards and there are no batteries
> inside the cards.
>
> Jack WA9FVP
> Sent from my iPad.
>
> --- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>,
> Robert Atkinson <robert8rpi@...> wrote:
> >
> > Hi,
> > Most of these have access to the battery from the end of the card.
> Easy answer is to change the battery with the card plugged in and the
> 8924C on. (Leave the write protect switch set to protect). You have of
> course backed up your card to a bin file using Memory Card Explorer
> (trial version)? It's best to leave the card plugged into the 8924C.
> While external power is supplied the internal battery is not being
> drained. Some units (don't know about 8924C) keep power on the SRAM
> card even when the unit is in standby.
> > ?
> > Robert G8RPI.
> >
> >
> > _____
> > From: jsternmd <jsternmd@...>
> > To: hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>
> > Sent: Tuesday, 31 January 2012, 0:49
> > Subject: [hp8924] SRAM Cards and Battery Replacement
> >
> >
> > ?
> > All of the recommended SRAM cards for the 8924C have lithium
> batteries, how does one change the battery without losing the card data?
> > tnx
> > jerry
> >
>

>

# 647. Re: [hp8924] Re: SRAM Cards and Battery Replacement

Yahoo group: hp8924
Date: 2012-01-31 15:07:37 UTC
From: N9LLO@aol.com
Topic: 642  Message: 647

They are non volatile flash memory cards. the HP wont write to them but memory card explorer will.

Chris

In a message dated 1/31/2012 9:58:26 A.M. Eastern Standard Time, tim@... writes:

Maybe a rechargeable lithium inside?

Tim W5FN

On 1/31/2012 7:57 AM, _willcoele@..._ (mailto:willcoele@...) wrote:

I have two 4 Mb cards that contains the HP firmware. They don't have a battery access. I assume they are ROM cards and there are no batteries inside the cards.

Jack WA9FVP
Sent from my iPad.

--- In _hp8924@yahoogroups.com_ (mailto:hp8924@yahoogroups.com) , Robert Atkinson _<robert8rpi@...>_ (mailto:robert8rpi@...) wrote:
>
> Hi,
> Most of these have access to the battery from the end of the card. Easy answer is to change the battery with the card plugged in and the 8924C on. (Leave the write protect switch set to protect). You have of course backed up your card to a bin file using Memory Card Explorer (trial version)? It's best to leave the card plugged into the 8924C. While external power is supplied the internal battery is not being drained. Some units (don't know about 8924C) keep power on the SRAM card even when the unit is in standby.
> Â
> Robert G8RPI.
>
>
> _____
> From: jsternmd _<jsternmd@...>_ (mailto:jsternmd@...)
> To: _hp8924@yahoogroups.com_ (mailto:hp8924@yahoogroups.com)
> Sent: Tuesday, 31 January 2012, 0:49
> Subject: [hp8924] SRAM Cards and Battery Replacement
>
>
> Â
> All of the recommended SRAM cards for the 8924C have lithium batteries, how does one change the battery without losing the card data?

> tnx
> jerry
>

# 648. Re: [hp8924] Re: SRAM Cards and Battery Replacement

Yahoo group: hp8924
Date: 2012-01-31 15:14:47 UTC
From: Tim
Topic: 642  Message: 648

That's pretty cool, I thought that the box had to write to the card, hence the SRAM 'reqmt'.

Makes it nice to not worry about losing the memory.

Think I'll try out a CF card & adapter & see if the explorer can write to the card.

Thanks for the info!

Tim

# 649. Re: [hp8924] Re: SRAM Cards and Battery Replacement

Yahoo group: hp8924
Date: 2012-01-31 18:30:40 UTC
From: Robert Atkinson
Topic: 642  Message: 649

Hi Tim,
A CF card in an adaptor will not work in the 8924C. This is true even if you use a PC amd MCE to write to the card. CF adaptors use the CF card's IDE mode. The HP needs a random access mode. This is unformatted memory. The non volatile HP card are either ROM, EPROM or what is known as "linear" FLASH. Linear FLASH cards are are available but are expensive. CF cards (early ones at least) should have a "linear" mode, but the adaptors don't use it. I've been meaning to get a cheap (but with repeat availablity) CF adaptor and see if I can hack it into linear mode. I'm pretty busy at the moment though.

On the battery access, it can be pretty near invisible on some cards. Check the part number of the card. If its an HP application card it will be non volatile. Some (modern) SRAM cards have fixed re-chargable cells (some have both replaceable and rechargable cells).

Robert G8RPI.

---
From: Tim <tim@...>
To: hp8924@yahoogroups.com
Sent: Tuesday, 31 January 2012, 15:14
Subject: Re: [hp8924] Re: SRAM Cards and Battery Replacement

That's pretty cool, I thought that the box had to write to the card,
hence the SRAM 'reqmt'.

Makes it nice to not worry about losing the memory.

Think I'll try out a CF card & adapter & see if the explorer can
write to the card.

Thanks for the info!

Tim

# 650. Re: [hp8924] Re: SRAM Cards and Battery Replacement

Yahoo group: hp8924
Date: 2012-01-31 20:38:49 UTC
From: N9LLO@aol.com
Topic: 642  Message: 650

You will need a sram card if you want to save any setups . you can copy the application to the sram and then change the default parameters and save it to the card. You always have the original copy on the hp flash card incase you lose sram battery.

Chris

In a message dated 1/31/2012 10:15:14 A.M. Eastern Standard Time, tim@... writes:

That's pretty cool, I thought that the box had to write to the card, hence the SRAM 'reqmt'.

Makes it nice to not worry about losing the memory.

Think I'll try out a CF card & adapter & see if the explorer can write to the card.

Thanks for the info!

Tim

# 651. Re: [hp8924] Re: SRAM Cards and Battery Replacement

Yahoo group: hp8924
Date: 2012-01-31 23:34:11 UTC
From: Tim
Topic: 642  Message: 651

Thanks Robert,

Saved me some time! I already have a 2m SRAM card, so
it was just to play.

Tim W5FN

On 1/31/2012 12:30 PM, Robert Atkinson wrote:
> Hi Tim,
> A CF card in an adaptor will not work in the 8924C. This is true even
> if you use a PC amd MCE to write to the card. CF adaptors use the CF
> card's IDE mode. The HP needs a random access mode. This is
> unformatted memory. The non volatile HP card are either ROM, EPROM or
> what is known as "linear" FLASH. Linear FLASH cards are are available
> but are expensive. CF cards (early ones at least) should have a
> "linear" mode, but the adaptors don't use it. I've been meaning to get
> a cheap (but with repeat availablity) CF adaptor and see if I can hack
> it into linear mode. I'm pretty busy at the moment though.
> On the battery access, it can be pretty near invisible on some cards.
> Check the part number of the card. If its an HP application card it
> will be non volatile. Some (modern) SRAM cards have fixed re-chargable
> cells (some have both replaceable and rechargable cells).
>
> Robert G8RPI.
>
> ---
> *From:* Tim <tim@...>
> *To:* hp8924@yahoogroups.com
> *Sent:* Tuesday, 31 January 2012, 15:14
> *Subject:* Re: [hp8924] Re: SRAM Cards and Battery Replacement
>
> That's pretty cool, I thought that the box had to write to the card,
> hence the SRAM 'reqmt'.
>
> Makes it nice to not worry about losing the memory.
>
> Think I'll try out a CF card & adapter & see if the explorer can
> write to the card.
>
> Thanks for the info!
>
> Tim
>
>
>

# 652. Re: [hp8924] Re: SRAM Cards and Battery Replacement

Yahoo group: hp8924
Date: 2012-02-01 07:27:46 UTC
From: Robert Atkinson
Topic: 642  Message: 652

Hi Tim,
I should have said that I did actually try a couple of CF adaptors. I also did some reasearch on the card specifications. The 8924C will never write to a flash card but it should read one with linear addressing. The IDE/ATA mode will never work.

Robert G8RPI.

_____
From: Tim <tim@...>
To: hp8924@yahoogroups.com
Sent: Tuesday, 31 January 2012, 23:34
Subject: Re: [hp8924] Re: SRAM Cards and Battery Replacement

Thanks Robert,

Saved me some time!  I already have a 2m SRAM card, so
it was just to play.

Tim W5FN

On 1/31/2012 12:30 PM, Robert Atkinson wrote:

>Hi Tim,
>A CF card in an adaptor will not work in the 8924C. This is true even if you use a PC amd MCE to write to the card. CF adaptors use the CF card's IDE mode. The HP needs a random access mode. This is unformatted memory. The non volatile HP card are either ROM, EPROM or what is known as "linear" FLASH. Linear FLASH cards are are available but are expensive. CF cards (early ones at least) should have a "linear" mode, but the adaptors don't use it. I've been meaning to get a cheap (but with repeat availablity) CF adaptor and see if I can hack it into linear mode. I'm pretty busy at the moment though.
>
>On the battery access, it can be pretty near invisible on some cards. Check the part number of the card. If its an HP application card it will be non volatile. Some (modern) SRAM cards have fixed re-chargable cells (some have both replaceable and rechargable cells).
>
>
>Robert G8RPI.
>
>
>
>_____
>From: Tim <tim@...>
>To: hp8924@yahoogroups.com
>Sent: Tuesday, 31 January 2012, 15:14
>Subject: Re: [hp8924] Re: SRAM Cards and Battery Replacement
>

>
>
>That's pretty cool, I thought that the box had to write to the card,
>hence the SRAM 'reqmt'.
>
>Makes it nice to not worry about losing the memory.
>
>Think I'll try out a CF card & adapter & see if the explorer can
>write to the card.
>
>Thanks for the info!
>
>Tim
>
>
>

# 653. How to Measure Age of a 8924C

Yahoo group: hp8924
Date: 2012-02-03 03:04:32 UTC
From: jsternmd
Topic: 653  Message: 653

I know that for the 8920A,B there is a ROM setting feature that will tell you how many times each attenuator section has been switched. Does the ROM on the 8924C have this feature aned what would be considered a really heavily used monitor? I recall seeing switch counts on 8920B of 150,000 per section and that was considered OK and not that "old" a unit. Anyone have any idea abouty switch counts and how that relates to past monitor usage? Does it matter?

thanks
Jerry

# 654. Starting points for duplexer tuning

Yahoo group: hp8924
Date: 2012-02-03 19:37:16 UTC
From: Paul Holm
Topic: 654  Message: 654

I'm new to tuning duplexers with my 8924c and was wondering if someone could help steer me.

I'm working on a four can VHF duplexer. Where are some good starting points for setting reference level, generator level, and frequency span when doing this?

If it matters, this one is a Sinclair Q202G with the two cans on each side 'hard wired', i.e., you can't tune each can individually. Each side has to be tuned together at one time.

I can see to tune the pass and notch but I'd also like to be able to see the combined response of one side in order to do a screen capture for documentation. Maybe with this duplexer, the combined response of one side would exceed the dynamic range that can be displayed at one time? Thanks.

73 Paul

# 655. Re: Starting points for duplexer tuning

Yahoo group: hp8924
Date: 2012-02-04 06:43:01 UTC
From: jyelmgren
Topic: 654  Message: 655

you may have seen the tuning instructions for the duplexer already at
http://www.repeater-builder.com/sinclair/q202-208-218-tuning.pdf

Normally when tuning duplexers it was more of optimizing performance on the required frequencies and not so much on the overall display or sweep.

I would actually just tune at the discrete frequencies first making sure to terminate any open ports.

Really was never too interested in the pretty picture at the end if the performance on the required frequencies was correct. If you are sharing the site with other VHF gear you may want to take those frequencies into account when tuning.

Often the notches would be set to different frequencies to work with other repeaters on the same site . Often we had to reconfigure the duplexer ( differnt modele though )to get the passes and notches to match what was needed at the site ( public safety systems used a wide range of offsets and channels )

If you want to dump the final performance for VHF amateur you should only need a few MHz sweep width with the center between the TX & RX.
You may need a pretty decent output level with the dual notch ...0db to start with and adjust the output and width as needed to get the display you want. Not sure how well the 70db notches will show ...may need to vary the sweep width to optimize that view ...the analyzer does have an 80db range but to get that you may need a pretty narrow sweep.

I would look at three tests /sweeps ...RX to Ant, TX to ANT and RX to TX.

Would document the pass and reject losses at your discreet RX and TX frequencies as well with those three combinations to go with the screen shots.

--- In hp8924@yahoogroups.com, Paul Holm <lists@...> wrote:
>
> I'm new to tuning duplexers with my 8924c and was wondering if someone
> could help steer me.
>
> I'm working on a four can VHF duplexer. Where are some good starting
> points for setting reference level, generator level, and frequency
> span when doing this?
>
> If it matters, this one is a Sinclair Q202G with the two cans on each
> side 'hard wired', i.e., you can't tune each can individually. Each
> side has to be tuned together at one time.
>
> I can see to tune the pass and notch but I'd also like to be able to
> see the combined response of one side in order to do a screen capture
> for documentation. Maybe with this duplexer, the combined response of
> one side would exceed the dynamic range that can be displayed at one

> time? Thanks.
>
>
> 73 Paul
>

# 656. (no subject)

Yahoo group: hp8924
Date: 2012-02-04 23:44:48 UTC
From: Joe Leikhim
Topic: 656  Message: 656

To comment on what Paul told you. If you have sufficient antenna isolation, normally you would not concern yourself with tuning notches to other seperate repeater frequencies. By doing this you will lose isolation for the transmitter noise receiver desense TNDR of the new repeater itself. If I was in a situation where another TX was desensing the receiver, I would add reject cavities as required to the other transmitter if TX noise were an issue and to the new repeaters receiver if TX overload were an issue.

Generally I start out with the cables I intend to use (double shielded, type N connectors), a type N barrel to short the two together and the generator set to provide maximum level and adjust the generator such that the spectrum analyzer trace is normalized at 0 dB line at top of screen. Note that top of screen may auto range -10 0r -20 dB or so to account for the generator level +10 dBm or +20 dBm or so. To see the notch, you will need maximum generator level.

Normally I install a 3 or 6 dB attenuator pad on each end of my tuneup cables to ensure a true 50 ohm load. If you do this, you will normalize to the top 0 dB line with this additional attenuation.

Be sure to terminate any unused TX or RX port with a good 50 ohm termination before beginning. If the duplexer has connecting cables between the legs and the "T", note where they come off, because the length of each is critical to the tuning.

Adjust the span of the analyzer to best visualize the portion you are tuning so that you need only to make small deliberate adjustments.

If I can isolate each can in a series, I do so, first maximizing the passband and centering as closely as possible. I then switch to the reject band and center the notch as closely as possible. Note that you can fine tune the Reject by slightly skewing the passband, but only do this as final tweak so that the passband is not degraded.

I repeat this for the second can in the series of each leg.

With both cans of a TX or RX leg together, seeing deep into the reject band is the difficult part. The best method is to skew the passband as before to ensure the reject bands are lined up together and form a nice deep notch. That notch should meet or exceed the specifications. Check by counting dB down from top 0 dB reference on the screen.

If you did well in previous adjustments, you should not have disturbed the passband insertion loss and the duplexer should be tuned properly on that leg. Note that insertion loss is difficult to measure accurately unless you change the spectrum analyzer vertical scale to 1 dB/division.

Repeat all of the above for the other leg of the duplexer remembering that the frequencies for pass and reject are reversed.

If you have a reject only duplexer, there is only a reject frequency to be tuned,

When you are finished, measure both legs for IL and rejection and see if it meets spec. Do not get hung up with exceeding specs unless you have any doubt of the accuracy of your method. You can wear stuff out on some cheaper duplexers.

--

Joe Leikhim

Leikhim and Associates
Communications Consultants
Oviedo, Florida
www.Leikhim.com <http://www.leikhim.com/>

# 657. Re: [hp8924]

Yahoo group: hp8924
Date: 2012-02-05 18:52:29 UTC
From: Paul Holm
Topic: 656  Message: 657

Thanks for the information Joe. I have been using pads on each port for testing and have made myself familiar with normalizing my instrument beforehand.

As for making measurements,do I need to re-normalize if:

- I change the generator level during tests?

- or if I change the reference level?

- or if I change the frequency span?

Quoting Joe Leikhim <rhyolite@...>:

>
> When you are finished, measure both legs for IL and rejection and see if it
> meets spec. Do not get hung up with exceeding specs unless you have any
> doubt of the accuracy of your method. You can wear stuff out on some
> cheaper duplexers.
>
> --
>
> Joe Leikhim
>
> Leikhim and Associates
> Communications Consultants
> Oviedo, Florida
> www.Leikhim.com <http://www.leikhim.com/>
>

# 658. Re: [hp8924]

Yahoo group: hp8924
Date: 2012-02-05 19:24:11 UTC
From: Ralph Mowery
Topic: 656  Message: 658

Yes to all.

When you normalize, you store a specific set of parameters in the 8924.  That is then used to refferance to when you use the b-a or is it the b-a function.
Any change that affects the B curve will mess up the calculations.

If just tuning for maximum notch or peak, it will not mater, but the values will be off.
YOu can tune without normilizing,but to get the absolute values, you will need to.

--- On Sun, 2/5/12, Paul Holm <lists@...> wrote:

From: Paul Holm <lists@...>
Subject: Re: [hp8924]
To: hp8924@yahoogroups.com
Date: Sunday, February 5, 2012, 1:52 PM

Thanks for the information Joe.  I have been using pads on each port
for testing and have made myself familiar with normalizing my
instrument beforehand.

As for making measurements,do I need to re-normalize if:

- I change the generator level during tests?

- or if I change the reference level?

- or if I change the frequency span?

# 659. RE: [hp8924]

Yahoo group: hp8924
Date: 2012-02-06 16:46:00 UTC
From: John Stuart
Topic: 656  Message: 659

Wow, nice set of instructions Joe. Could you write one for everything else the HP892x can do? :)

Seriously, would you post you message in the Files section so I could find it next time I need it.

John Stuart, KM6QX

---

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Joe Leikhim
Sent: Saturday, February 04, 2012 3:45 PM
To: hp8924@yahoogroups.com
Subject: [hp8924]

To comment on what Paul told you. If you have sufficient antenna isolation, normally you would not concern yourself with tuning notches to other seperate repeater frequencies. By doing this you will lose isolation for the transmitter noise receiver desense TNDR of the new repeater itself. If I was in a situation where another TX was desensing the receiver, I would add reject cavities as required to the other transmitter if TX noise were an issue and to the new repeaters receiver if TX overload were an issue.

Generally I start out with the cables I intend to use (double shielded, type N connectors), a type N barrel to short the two together and the generator set to provide maximum level and adjust the generator such that the spectrum analyzer trace is normalized at 0 dB line at top of screen. Note that top of screen may auto range -10 0r -20 dB or so to account for the generator level +10 dBm or +20 dBm or so. To see the notch, you will need maximum generator level.

Normally I install a 3 or 6 dB attenuator pad on each end of my tuneup cables to ensure a true 50 ohm load. If you do this, you will normalize to the top 0 dB line with this additional attenuation.

Be sure to terminate any unused TX or RX port with a good 50 ohm termination before beginning. If the duplexer has connecting cables between the legs and the "T", note where they come off, because the length of each is critical to the tuning.

Adjust the span of the analyzer to best visualize the portion you are tuning so that you need only to make small deliberate adjustments.

If I can isolate each can in a series, I do so, first maximizing the passband and centering as closely as possible. I then switch to the reject band and center the notch as closely as possible. Note that you can fine

tune the Reject by slightly skewing the passband, but only do this as final tweak so that the passband is not degraded.

I repeat this for the second can in the series of each leg.

With both cans of a TX or RX leg together, seeing deep into the reject band is the difficult part. The best method is to skew the passband as before to ensure the reject bands are lined up together and form a nice deep notch. That notch should meet or exceed the specifications. Check by counting dB down from top 0 dB reference on the screen.

If you did well in previous adjustments, you should not have disturbed the passband insertion loss and the duplexer should be tuned properly on that leg. Note that insertion loss is difficult to measure accurately unless you change the spectrum analyzer vertical scale to 1 dB/division.

Repeat all of the above for the other leg of the duplexer remembering that the frequencies for pass and reject are reversed.

If you have a reject only duplexer, there is only a reject frequency to be tuned,

When you are finished, measure both legs for IL and rejection and see if it meets spec. Do not get hung up with exceeding specs unless you have any doubt of the accuracy of your method. You can wear stuff out on some cheaper duplexers.

--

Joe Leikhim

Leikhim and Associates
Communications Consultants
Oviedo, Florida

www.Leikhim.com <http://www.leikhim.com/>

# 660. (no subject)

Yahoo group: hp8924
Date: 2012-02-06 20:12:33 UTC
From: Joe Leikhim
Topic: 660  Message: 660

Well said Ralph!

--

Joe Leikhim

Leikhim and Associates
Communications Consultants
Oviedo, Florida
www.Leikhim.com <http://www.leikhim.com/>

# 661. Need Schematic for A31 (CDMA LO/IF Demodulator) Card (08924-61005)

Yahoo group: hp8924
Date: 2012-02-07 01:38:55 UTC
From: Mike (WM4B)
Topic: 661  Message: 661

Anybody know where I might find a schematic for the subject card?

73,

Mike
WM4B

# 662. Video out Signal 19.2kHz 50 Ohm to 75 Ohm

Yahoo group: hp8924
Date: 2012-02-08 08:14:44 UTC
From: yobbo70
Topic: 662  Message: 662

Hello, I purchased a MVC007 Video converter from Moncotech. and it works well with the 8924c and my 19" LCD monitor, finally I can see whats going on without glasses

However the video signal from the 8924c is 50ohm and the MVC007 requires a 75ohm signal, although it is working fine, what are the consequences of this mismatch? is there a way to convert the 50 ohm signal to 75 Ohm?

http://www.moncotech.com/products/mvc007/spec.php

Thank you very much

Ian VK4NFL

# 663. Re: [hp8924] Video out Signal 19.2kHz 50 Ohm to 75 Ohm

Yahoo group: hp8924
Date: 2012-02-08 08:24:00 UTC
From: keith
Topic: 662  Message: 663

Add a 25 ohm resistor in series but your levels will be wrong. It would be better to use a 50 ohm termination resistor in the converter to maintain levels. I am surprised that the 8924 is 50 ohm out. I will see if i can check.
If it works on and no ringing I wouldn’t worry about it.

From: yobbo70
Sent: Wednesday, February 08, 2012 9:14 PM
To: hp8924@yahoogroups.com
Subject: [hp8924] Video out Signal 19.2kHz 50 Ohm to 75 Ohm

Hello, I purchased a MVC007 Video converter from Moncotech. and it works well with the 8924c and my 19" LCD monitor, finally I can see whats going on without glasses

However the video signal from the 8924c is 50ohm and the MVC007 requires a 75ohm signal, although it is working fine, what are the consequences of this mismatch? is there a way to convert the 50 ohm signal to 75 Ohm?

http://www.moncotech.com/products/mvc007/spec.php

Thank you very much

Ian VK4NFL

# 664. Re: [hp8924] Video out Signal 19.2kHz 50 Ohm to 75 Ohm

Yahoo group: hp8924
Date: 2012-02-08 12:43:00 UTC
From: Robert Atkinson
Topic: 662  Message: 664

Hi Ian,
What makes you think the 8924C video output is 50R? As far as I'm aware it is 75R which is standard for video (the connector may be a 50R type). At this line rate a 50R/75R mis-match would not matter unless you were using very long (>10') video cables.

Regards,
Robert G8RPI.

---
From: yobbo70 <yobbo70@...>
To: hp8924@yahoogroups.com
Sent: Wednesday, 8 February 2012, 8:14
Subject: [hp8924] Video out Signal 19.2kHz 50 Ohm to 75 Ohm

Hello, I purchased a MVC007 Video converter from Moncotech. and it works well with the 8924c and my 19" LCD monitor, finally I can see whats going on without glasses

However the video signal from the 8924c is 50ohm and the MVC007 requires a 75ohm signal, although it is working fine, what are the consequences of this mismatch? is there a way to convert the 50 ohm signal to 75 Ohm?

http://www.moncotech.com/products/mvc007/spec.php

Thank you very much

Ian VK4NFL

# 665. Re: [hp8924] Video out Signal 19.2kHz 50 Ohm to 75 Ohm

Yahoo group: hp8924
Date: 2012-02-08 13:22:03 UTC
From: mwbesemer@cox.net
Topic: 662  Message: 665
Attachments: 2 described; binary payloads are missing from this source WARC

[ Attachment content not displayed ]

# 666. Re: [hp8924] Video out Signal 19.2kHz 50 Ohm to 75 Ohm

Yahoo group: hp8924
Date: 2012-02-09 05:24:10 UTC
From: keith
Topic: 662  Message: 666

Measure the un-terminated video output on a scope and it might be easier to note the amplitude of the sync pulse or the video if it is easy to see. Then terminate the out put with a 75 ohm resistor and if it drops by half, then it is 75 ohm output, which I am sure it is. The 8920 is for sure.

Keith

From: Robert Atkinson
Sent: Thursday, February 09, 2012 1:43 AM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Video out Signal 19.2kHz 50 Ohm to 75 Ohm

Hi Ian,
What makes you think the 8924C video output is 50R? As far as I'm aware it is 75R which is standard for video (the connector may be a 50R type). At this line rate a 50R/75R mis-match would not matter unless you were using very long (>10') video cables.

Regards,
Robert G8RPI.

From: yobbo70 <yobbo70@...>
To: hp8924@yahoogroups.com
Sent: Wednesday, 8 February 2012, 8:14
Subject: [hp8924] Video out Signal 19.2kHz 50 Ohm to 75 Ohm

Hello, I purchased a MVC007 Video converter from Moncotech. and it works well with the 8924c and my 19" LCD monitor, finally I can see whats going on without glasses

However the video signal from the 8924c is 50ohm and the MVC007 requires a 75ohm signal, although it is working fine, what are the consequences of this mismatch? is there a way to convert the 50 ohm signal to 75 Ohm?

http://www.moncotech.com/products/mvc007/spec.php

Thank you very much

Ian VK4NFL

# 667. Re: Video out Signal 19.2kHz 50 Ohm to 75 Ohm

Yahoo group: hp8924
Date: 2012-02-09 08:15:34 UTC
From: yobbo70
Topic: 662  Message: 667

Ok looks like I might have got the 50R video out wrong sorry for the / my confusion, I have placed some photos in the photo section of the MVC007 RGB,MDA,CGA,EGA to VGA Converter I purchased of ebay for $185 USD plus shipping to me in Australia, it took a matter of seconds to plug in and set up. The photos were taken with a iPhone so the quality is not to good, and the LCD screen is a 19" wall mounted (and very dirty, has been up there for years)

I am so happy with the video out quality of this converter, finally have a screen I can see, and to me it`s worth every cent

thanks again

Ian VK4NFL

--- In hp8924@yahoogroups.com, "keith" <oldmill@...> wrote:
>
> Measure the un-terminated video output on a scope and it might be easier to note the amplitude of the sync pulse or the video if it is easy to see. Then terminate the out put with a 75 ohm resistor and if it drops by half, then it is 75 ohm output, which I am sure it is. The 8920 is for sure.
>
> Keith
>
> From: Robert Atkinson
> Sent: Thursday, February 09, 2012 1:43 AM
> To: hp8924@yahoogroups.com
> Subject: Re: [hp8924] Video out Signal 19.2kHz 50 Ohm to 75 Ohm
>
>
>
> Hi Ian,
> What makes you think the 8924C video output is 50R? As far as I'm aware it is 75R which is standard for video (the connector may be a 50R type). At this line rate a 50R/75R mis-match would not matter unless you were using very long (>10') video cables.
>
> Regards,
> Robert G8RPI.
>
> From: yobbo70 <yobbo70@...>
> To: hp8924@yahoogroups.com
> Sent: Wednesday, 8 February 2012, 8:14
> Subject: [hp8924] Video out Signal 19.2kHz 50 Ohm to 75 Ohm
>
>
>
>

>
> Hello, I purchased a MVC007 Video converter from Moncotech. and it works well with the 8924c and my 19" LCD monitor, finally I can see whats going on without glasses
>
> However the video signal from the 8924c is 50ohm and the MVC007 requires a 75ohm signal, although it is working fine, what are the consequences of this mismatch? is there a way to convert the 50 ohm signal to 75 Ohm?
>
> http://www.moncotech.com/products/mvc007/spec.php
>
> Thank you very much
>
> Ian VK4NFL
>

# 668. Re: Video out Signal 19.2kHz 50 Ohm to 75 Ohm

Yahoo group: hp8924
Date: 2012-02-12 14:17:34 UTC
From: brad_k9mhz
Topic: 662  Message: 668

The photos look pretty darn good to me....thanks for posting.

Brad, K9MHZ

--- In hp8924@yahoogroups.com, "yobbo70" <yobbo70@...> wrote:
>
> Ok looks like I might have got the 50R video out wrong sorry for the / my confusion, I have placed some photos in the photo section of the MVC007 RGB,MDA,CGA,EGA to VGA Converter I purchased of ebay for $185 USD plus shipping to me in Australia, it took a matter of seconds to plug in and set up. The photos were taken with a iPhone so the quality is not to good, and the LCD screen is a 19" wall mounted (and very dirty, has been up there for years)
>
> I am so happy with the video out quality of this converter, finally have a screen I can see, and to me it`s worth every cent
>
> thanks again
>
> Ian VK4NFL
>
> --- In hp8924@yahoogroups.com, "keith" <oldmill@> wrote:
> >
> > Measure the un-terminated video output on a scope and it might be easier to note the amplitude of the sync pulse or the video if it is easy to see. Then terminate the out put with a 75 ohm resistor and if it drops by half, then it is 75 ohm output, which I am sure it is. The 8920 is for sure.
> >
> > Keith
> >
> > From: Robert Atkinson
> > Sent: Thursday, February 09, 2012 1:43 AM
> > To: hp8924@yahoogroups.com
> > Subject: Re: [hp8924] Video out Signal 19.2kHz 50 Ohm to 75 Ohm
> >
> >
> >
> > Hi Ian,
> > What makes you think the 8924C video output is 50R? As far as I'm aware it is 75R which is standard for video (the connector may be a 50R type). At this line rate a 50R/75R mis-match would not matter unless you were using very long (>10') video cables.
> >
> > Regards,
> > Robert G8RPI.
> >
> > From: yobbo70 <yobbo70@>

> > To: hp8924@yahoogroups.com
> > Sent: Wednesday, 8 February 2012, 8:14
> > Subject: [hp8924] Video out Signal 19.2kHz 50 Ohm to 75 Ohm
> >
> >
> >
> >
> >
> > Hello, I purchased a MVC007 Video converter from Moncotech. and it works well with the 8924c and my 19" LCD monitor, finally I can see whats going on without glasses
> >
> > However the video signal from the 8924c is 50ohm and the MVC007 requires a 75ohm signal, although it is working fine, what are the consequences of this mismatch? is there a way to convert the 50 ohm signal to 75 Ohm?
> >
> > http://www.moncotech.com/products/mvc007/spec.php
> >
> > Thank you very much
> >
> > Ian VK4NFL
> >
>

# 669. Re: [hp8924] Was Duplexer Tuning

Yahoo group: hp8924
Date: 2012-02-14 04:10:23 UTC
From: rfiemiguy
Topic: 669  Message: 669

It is done!

--- In hp8924@yahoogroups.com, "John Stuart" <j.w.stuart@...> wrote:
>
> Wow, nice set of instructions Joe. Could you write one for everything else
> the HP892x can do? :)
>
>
>
> Seriously, would you post you message in the Files section so I could find
> it next time I need it.
>
>
>
> John Stuart, KM6QX
>
>
>
> -----
>
> From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of
> Joe Leikhim
> Sent: Saturday, February 04, 2012 3:45 PM
> To: hp8924@yahoogroups.com
> Subject: [hp8924]
>
>
>
>
>
> To comment on what Paul told you. If you have sufficient antenna isolation,
> normally you would not concern yourself with tuning notches to other
> seperate repeater frequencies. By doing this you will lose isolation for the
> transmitter noise receiver desense TNDR of the new repeater itself. If I was
> in a situation where another TX was desensing the receiver, I would add
> reject cavities as required to the other transmitter if TX noise were an
> issue and to the new repeaters receiver if TX overload were an issue.
>
> Generally I start out with the cables I intend to use (double shielded, type
> N connectors), a type N barrel to short the two together and the generator
> set to provide maximum level and adjust the generator such that the spectrum
> analyzer trace is normalized at 0 dB line at top of screen. Note that top
> of screen may auto range -10 0r -20 dB or so to account for the generator
> level +10 dBm or +20 dBm or so. To see the notch, you will need maximum
> generator level.

>
> Normally I install a 3 or 6 dB attenuator pad on each end of my tuneup
> cables to ensure a true 50 ohm load. If you do this, you will normalize to
> the top 0 dB line with this additional attenuation.
>
> Be sure to terminate any unused TX or RX port with a good 50 ohm termination
> before beginning. If the duplexer has connecting cables between the legs and
> the "T", note where they come off, because the length of each is critical to
> the tuning.
>
> Adjust the span of the analyzer to best visualize the portion you are tuning
> so that you need only to make small deliberate adjustments.
>
> If I can isolate each can in a series, I do so, first maximizing the
> passband and centering as closely as possible. I then switch to the reject
> band and center the notch as closely as possible. Note that you can fine
> tune the Reject by slightly skewing the passband, but only do this as final
> tweak so that the passband is not degraded.
>
> I repeat this for the second can in the series of each leg.
>
> With both cans of a TX or RX leg together, seeing deep into the reject band
> is the difficult part. The best method is to skew the passband as before to
> ensure the reject bands are lined up together and form a nice deep notch.
> That notch should meet or exceed the specifications. Check by counting dB
> down from top 0 dB reference on the screen.
>
> If you did well in previous adjustments, you should not have disturbed the
> passband insertion loss and the duplexer should be tuned properly on that
> leg. Note that insertion loss is difficult to measure accurately unless you
> change the spectrum analyzer vertical scale to 1 dB/division.
>
> Repeat all of the above for the other leg of the duplexer remembering that
> the frequencies for pass and reject are reversed.
>
> If you have a reject only duplexer, there is only a reject frequency to be
> tuned,
>
> When you are finished, measure both legs for IL and rejection and see if it
> meets spec. Do not get hung up with exceeding specs unless you have any
> doubt of the accuracy of your method. You can wear stuff out on some cheaper
> duplexers.
>
> --
>
> Joe Leikhim
>
> Leikhim and Associates
> Communications Consultants
> Oviedo, Florida

>
> www.Leikhim.com <http://www.leikhim.com/>
>

# 670. HP8920A/B Training Tape on VHS

Yahoo group: hp8924
Date: 2012-02-14 04:15:04 UTC
From: rfiemiguy
Topic: 670  Message: 670

I have a VHS tape titled: Features and Basic Operation of HP 8920A Communications Test Set. I can find someone who has VHS to DVD conversion capabilities, I will gladly loan to them to create a digital copy for distribution. Not sure how long it is. Contact me off the board if you are interested.

# 671. Re: [hp8924] HP8920A/B Training Tape on VHS

Yahoo group: hp8924
Date: 2012-02-14 07:19:17 UTC
From: Robert Atkinson
Topic: 670  Message: 671

Hi,
If no one closer is able to I can do this for you. I'm in the UK but NTSC/PAL is not an issue.

Robert G8RPI.

---
From: rfiemiguy <rhyolite@...>
To: hp8924@...m
Sent: Tuesday, 14 February 2012, 4:15
Subject: [hp8924] HP8920A/B Training Tape on VHS

I have a VHS tape titled: Features and Basic Operation of HP 8920A Communications Test Set. I can find someone who has VHS to DVD conversion capabilities, I will gladly loan to them to create a digital copy for distribution. Not sure how long it is. Contact me off the board if you are interested.

# 672. Re: HP8920A/B Training Tape on VHS

Yahoo group: hp8924
Date: 2012-02-14 13:01:04 UTC
From: kb9jzy
Topic: 670  Message: 672

I would to see this video!

Terry K9HA

--- In hp8924@yahoogroups.com, "rfiemiguy" <rhyolite@...> wrote:
>
> I have a VHS tape titled: Features and Basic Operation of HP 8920A Communications Test Set. I can find someone who has VHS to DVD conversion capabilities, I will gladly loan to them to create a digital copy for distribution. Not sure how long it is. Contact me off the board if you are interested.
>

# 673. Re: [hp8924] HP8920A/B Training Tape on VHS

Yahoo group: hp8924
Date: 2012-02-14 14:40:16 UTC
From: Ross Johnson
Topic: 670  Message: 673

I might be able to help. I have access to a S-VHS VCR that I've been planning on using to convert many or of our old videos to digital. Not that the S-VHS part will make a big difference on non S tapes but it does seem to give you a sharper picture then some. I am interested as I'm a fairly new owner of a 8924 and wouldn't mind seeing it. And this may be a good reason to set it up to my DVD recorder and convert our other tapes... Let me know

~Ross
www.kc7rjk.net

From: rfiemiguy
Sent: Monday, February 13, 2012 8:15 PM
To: hp8924@yahoogroups.com
Subject: [hp8924] HP8920A/B Training Tape on VHS

I have a VHS tape titled: Features and Basic Operation of HP 8920A Communications Test Set. I can find someone who has VHS to DVD conversion capabilities, I will gladly loan to them to create a digital copy for distribution. Not sure how long it is. Contact me off the board if you are interested.

# 674. Re: HP8920A/B Training Tape on VHS

Yahoo group: hp8924
Date: 2012-02-14 14:52:35 UTC
From: Frank
Topic: 670  Message: 674

I cant do the copy but I would sure like a copy of that either when its converted or even if its not converted. Name here is Frank (KB2AYS) I have the 8924c and would nice to have.

Thanks

--- In hp8924@yahoogroups.com, "rfiemiguy" <rhyolite@...> wrote:
>
> I have a VHS tape titled: Features and Basic Operation of HP 8920A Communications Test Set. I can find someone who has VHS to DVD conversion capabilities, I will gladly loan to them to create a digital copy for distribution. Not sure how long it is. Contact me off the board if you are interested.
>

# 675. RE: [hp8924] HP8920A/B Training Tape on VHS

Yahoo group: hp8924
Date: 2012-02-14 18:09:38 UTC
From: Thomas Leather
Topic: 670  Message: 675

I can do it I'm in NY us

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Robert Atkinson
Sent: Tuesday, February 14, 2012 2:19 AM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] HP8920A/B Training Tape on VHS

Hi,

If no one closer is able to I can do this for you. I'm in the UK but NTSC/PAL is not an issue.

Robert G8RPI.

From: rfiemiguy <rhyolite@...>
To: hp8924@yahoogroups.com
Sent: Tuesday, 14 February 2012, 4:15
Subject: [hp8924] HP8920A/B Training Tape on VHS

I have a VHS tape titled: Features and Basic Operation of HP 8920A Communications Test Set. I can find someone who has VHS to DVD conversion capabilities, I will gladly loan to them to create a digital copy for distribution. Not sure how long it is. Contact me off the board if you are interested.

# 676. Re: HP8920A/B Training Tape on VHS

Yahoo group: hp8924
Date: 2012-02-15 05:18:18 UTC
From: rfiemiguy
Topic: 670  Message: 676

Wow;
I got a pretty good response on this. Tomorrow I will choose one and send the tape off to be converted. Thanks all who responded. One concern is where to host this file for the group as it will be too big for the files section. At least one person did offer to host temporarily. I will review my options, and am open to suggestions for hosting.

--- In hp8924@yahoogroups.com, "rfiemiguy" <rhyolite@...> wrote:
>
> I have a VHS tape titled: Features and Basic Operation of HP 8920A Communications Test Set. I can find someone who has VHS to DVD conversion capabilities, I will gladly loan to them to create a digital copy for distribution. Not sure how long it is. Contact me off the board if you are interested.
>

# 677. Re: [hp8924] Re: HP8920A/B Training Tape on VHS

Yahoo group: hp8924
Date: 2012-02-15 05:27:57 UTC
From: Ed Hickenbotham
Topic: 670  Message: 677

Why not have whomever you choose, to make a file for you, then you make a CD or DVD and make it availible to the group
and or other groups! With a *Little Profit* of course.
Ed kd0njk

---
From: rfiemiguy <rhyolite@...>
To: hp8924@yahoogroups.com
Sent: Tuesday, February 14, 2012 10:18 PM
Subject: [hp8924] Re: HP8920A/B Training Tape on VHS

Wow;
I got a pretty good response on this. Tomorrow I will choose one and send the tape off to be converted. Thanks all who responded. One concern is where to host this file for the group as it will be too big for the files section. At least one person did offer to host temporarily. I will review my options, and am open to suggestions for hosting.

--- In hp8924@yahoogroups.com, "rfiemiguy" <rhyolite@...> wrote:
>
> I have a VHS tape titled: Features and Basic Operation of HP 8920A Communications Test Set. I can find someone who has VHS to DVD conversion capabilities, I will gladly loan to them to create a digital copy for distribution. Not sure how long it is. Contact me off the board if you are interested.
>

# 678. Re: [hp8924] Re: HP8920A/B Training Tape on VHS

Yahoo group: hp8924
Date: 2012-02-15 07:00:13 UTC
From: keith
Topic: 670  Message: 678

I would love to see this too. I have an 8924 and an 8920. I have seen part of a video before but it was cut short so not complete and poor quality so I would welcome the chance to see a good copy.
Keith
NZ

From: rfiemiguy
Sent: Wednesday, February 15, 2012 6:18 PM
To: hp8924@yahoogroups.com
Subject: [hp8924] Re: HP8920A/B Training Tape on VHS

Wow;
I got a pretty good response on this. Tomorrow I will choose one and send the tape off to be converted. Thanks all who responded. One concern is where to host this file for the group as it will be too big for the files section. At least one person did offer to host temporarily. I will review my options, and am open to suggestions for hosting.

--- In mailto:hp8924%40yahoogroups.com, "rfiemiguy" <rhyolite@...> wrote:
>
> I have a VHS tape titled: Features and Basic Operation of HP 8920A Communications Test Set. I can find someone who has VHS to DVD conversion capabilities, I will gladly loan to them to create a digital copy for distribution. Not sure how long it is. Contact me off the board if you are interested.
>

# 679. Re: [hp8924] Re: HP8920A/B Training Tape on VHS

Yahoo group: hp8924
Date: 2012-02-15 12:48:31 UTC
From: Tony Brignole
Topic: 670  Message: 679

Thank you for taking the time and effort to do this.

I for one more would be very interested. I have an 8924C and have learned several tricks and techniques from this group. Not being a die hard pro I continue to find new things I can use it for.

When you find a home I would be interested in viewing it. I would be willing to pay for a hard copy CD if you can figure out a way to do it.

----- Original Message -----
From: rfiemiguy
To: hp8924@yahoogroups.com
Sent: Tuesday, February 14, 2012 11:18 PM
Subject: [hp8924] Re: HP8920A/B Training Tape on VHS

Wow;
I got a pretty good response on this. Tomorrow I will choose one and send the tape off to be converted. Thanks all who responded. One concern is where to host this file for the group as it will be too big for the files section. At least one person did offer to host temporarily. I will review my options, and am open to suggestions for hosting.

--- In hp8924@yahoogroups.com, "rfiemiguy" <rhyolite@...> wrote:
>
> I have a VHS tape titled: Features and Basic Operation of HP 8920A Communications Test Set. I can find someone who has VHS to DVD conversion capabilities, I will gladly loan to them to create a digital copy for distribution. Not sure how long it is. Contact me off the board if you are interested.
>

# 680. Re: [hp8924] Re: HP8920A/B Training Tape on VHS

Yahoo group: hp8924
Date: 2012-02-15 14:25:53 UTC
From: kc7rjk@comcast.net
Topic: 680  Message: 680
Attachments: 2 described; binary payloads are missing from this source WARC

[ Attachment content not displayed ]

# 681. Re: HP8920A/B Training Tape on VHS

Yahoo group: hp8924
Date: 2012-02-15 14:32:28 UTC
From: Frank
Topic: 670  Message: 681

YOu can actually post this on youtube but might have to break it in to multiple parts.

Frank

--- In hp8924@yahoogroups.com, "rfiemiguy" <rhyolite@...> wrote:
>
> Wow;
> I got a pretty good response on this. Tomorrow I will choose one and send the tape off to be converted. Thanks all who responded. One concern is where to host this file for the group as it will be too big for the files section. At least one person did offer to host temporarily. I will review my options, and am open to suggestions for hosting.
>
> --- In hp8924@yahoogroups.com, "rfiemiguy" <rhyolite@> wrote:
> >
> > I have a VHS tape titled: Features and Basic Operation of HP 8920A Communications Test Set. I can find someone who has VHS to DVD conversion capabilities, I will gladly loan to them to create a digital copy for distribution. Not sure how long it is. Contact me off the board if you are interested.
> >
>

# 682. Re: [hp8924] Re: HP8920A/B Training Tape on VHS

Yahoo group: hp8924
Date: 2012-02-15 21:27:04 UTC
From: Rix Seacord
Topic: 670  Message: 682

Ditto for me.
I would be more than willing to pay for a copy of the tape.
Thanks
Rix
K2AVP

On 2/15/2012 7:48 AM, Tony Brignole wrote:
>
> Thank you for taking the time and effort to do this.
> I for one more would be very interested. I have an 8924C and have
> learned several tricks and techniques from this group. Not being a die
> hard pro I continue to find new things I can use it for.
> When you find a home I would be interested in viewing it. I would be
> willing to pay for a hard copy CD if you can figure out a way to do it.
>
> ----- Original Message -----
> *From:* rfiemiguy <mailto:rhyolite@...>
> *To:* hp8924@yahoogroups.com <mailto:hp8924@yahoogroups.com>
> *Sent:* Tuesday, February 14, 2012 11:18 PM
> *Subject:* [hp8924] Re: HP8920A/B Training Tape on VHS
>
> Wow;
> I got a pretty good response on this. Tomorrow I will choose one
> and send the tape off to be converted. Thanks all who responded.
> One concern is where to host this file for the group as it will be
> too big for the files section. At least one person did offer to
> host temporarily. I will review my options, and am open to
> suggestions for hosting.
>
> --- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>,
> "rfiemiguy" <rhyolite@...> wrote:
> >
> > I have a VHS tape titled: Features and Basic Operation of HP
> 8920A Communications Test Set. I can find someone who has VHS to
> DVD conversion capabilities, I will gladly loan to them to create
> a digital copy for distribution. Not sure how long it is. Contact
> me off the board if you are interested.
> >
>
>

# 683. Re: [hp8924] Re: HP8920A/B Training Tape on VHS

Yahoo group: hp8924
Date: 2012-02-16 00:19:34 UTC
From: Tim Campbell
Topic: 670  Message: 683

Sign me up too.

Tim
KB2MFS

On Wed, Feb 15, 2012 at 3:27 PM, Rix Seacord <eseacord@...> wrote:

>
>
> Ditto for me.
> I would be more than willing to pay for a copy of the tape.
> Thanks
> Rix
> K2AVP
>
>
> On 2/15/2012 7:48 AM, Tony Brignole wrote:
>
>
>
> Thank you for taking the time and effort to do this.
>
> I for one more would be very interested. I have an 8924C and have learned
> several tricks and techniques from this group. Not being a die hard pro I
> continue to find new things I can use it for.
>
> When you find a home I would be interested in viewing it. I would be
> willing to pay for a hard copy CD if you can figure out a way to do it.
>
>
>
>
> ----- Original Message -----
> *From:* rfiemiguy <rhyolite@...>
> *To:* hp8924@yahoogroups.com
> *Sent:* Tuesday, February 14, 2012 11:18 PM
> *Subject:* [hp8924] Re: HP8920A/B Training Tape on VHS
>
>
>
> Wow;
> I got a pretty good response on this. Tomorrow I will choose one and send
> the tape off to be converted. Thanks all who responded. One concern is
> where to host this file for the group as it will be too big for the files
> section. At least one person did offer to host temporarily. I will review
> my options, and am open to suggestions for hosting.

>
> --- In hp8924@yahoogroups.com, "rfiemiguy" <rhyolite@...> <rhyolite@...>wrote:
> >
> > I have a VHS tape titled: Features and Basic Operation of HP 8920A
> Communications Test Set. I can find someone who has VHS to DVD conversion
> capabilities, I will gladly loan to them to create a digital copy for
> distribution. Not sure how long it is. Contact me off the board if you are
> interested.
> >
>
>
>
>
>

# 684. Re: [hp8924] Re: HP8920A/B Training Tape on VHS

Yahoo group: hp8924
Date: 2012-02-16 00:35:00 UTC
From: Ralph S. Turk
Topic: 670  Message: 684

Sign me up also Ralph, W7HSG ----- Original Message ----- From: "Tim Campbell" To: hp8924@yahoogroups.com Sent: Wednesday, February 15, 2012 5:19:34 PM Subject: Re: [hp8924] Re: HP8920A/B Training Tape on VHS Sign me up too. Tim KB2MFS On Wed, Feb 15, 2012 at 3:27 PM, Rix Seacord < eseacord@... > wrote: Ditto for me. I would be more than willing to pay for a copy of the tape. Thanks Rix K2AVP On 2/15/2012 7:48 AM, Tony Brignole wrote:
Thank you for taking the time and effort to do this. I for one more would be very interested. I have an 8924C and have learned several tricks and techniques from this group. Not being a die hard pro I continue to find new things I can use it for. When you find a home I would be interested in viewing it. I would be willing to pay for a hard copy CD if you can figure out a way to do it.
----- Original Message ----- From: rfiemiguy To: hp8924@yahoogroups.com Sent: Tuesday, February 14, 2012 11:18 PM Subject: [hp8924] Re: HP8920A/B Training Tape on VHS Wow; I got a pretty good response on this. Tomorrow I will choose one and send the tape off to be converted. Thanks all who responded. One concern is where to host this file for the group as it will be too big for the files section. At least one person did offer to host temporarily. I will review my options, and am open to suggestions for hosting. --- In hp8924@yahoogroups.com , "rfiemiguy" wrote: > > I have a VHS tape titled: Features and Basic Operation of HP 8920A Communications Test Set. I can find someone who has VHS to DVD conversion capabilities, I will gladly loan to them to create a digital copy for distribution. Not sure how long it is. Contact me off the board if you are interested. >

# 685. Microphone for HP8924

Yahoo group: hp8924
Date: 2012-02-17 02:56:09 UTC
From: Mike (WM4B)
Topic: 685  Message: 685

Looking for a microphone for my -8924. What have ya'll found that works? I have a connector that will do the job... just need to know what microphones are usable. I have several old MICOR microphones and a spare MAXTRAC microphone or two... either of those acceptable?

73,

Mike
WM4B

# 686. Re: Microphone for HP8924

Yahoo group: hp8924
Date: 2012-02-17 07:26:00 UTC
From: Thomas Leather
Topic: 685  Message: 686

I took an old GE mic from a MLS radio changed the connector & it work great
. I will try to find my note & post more info

# 687. Re: Microphone for HP8924

Yahoo group: hp8924
Date: 2012-02-17 08:21:57 UTC
From: mike_dot_groves
Topic: 685  Message: 687

The Maxtrac mics all used a built-in pre-amp, so they probably wouldn't be a good choice.

Thanks for the tip on the MLS radio! I've got a first generation UHF MLS that can only be programmed via EPROM that was about to hit the bottom of a dumpster. (Can't even give it away at swap meets.) Didn't think of using the mic on the 8924. Duh!

# 688. Re: Microphone for HP8924

Yahoo group: hp8924
Date: 2012-02-17 23:26:59 UTC
From: brad_k9mhz
Topic: 685  Message: 688

Yep, and Hi-Z, I think. Mouser has the connectors, too.

Brad, K9MHZ

--- In hp8924@yahoogroups.com, "Mike \(WM4B\)" <mwbesemer@...> wrote:
>
> Looking for a microphone for my -8924. What have ya'll found that works? I
> have a connector that will do the job... just need to know what microphones
> are usable. I have several old MICOR microphones and a spare MAXTRAC
> microphone or two... either of those acceptable?
>
> 73,
>
> Mike
> WM4B
>

# 689. Re: Video out Signal 19.2kHz 50 Ohm to 75 Ohm

Yahoo group: hp8924
Date: 2012-02-17 23:33:00 UTC
From: brad_k9mhz
Topic: 662  Message: 689

Got mine the other day. Fires right up with no mods required. The wall wart the guy (Chinese grad student in New York on eBay....moncotech or something) was absolute crap. No documentation, either. He was typically stubborn, and obviously didn't care about his buyer. The unit is expensive, the power supply is worthless, the unit itself is good, and he's definitely not good.

FWIW.

--- In hp8924@yahoogroups.com, "brad_k9mhz" <bradknapp@...> wrote:
>
> The photos look pretty darn good to me....thanks for posting.
>
> Brad, K9MHZ
>
>
>
> --- In hp8924@yahoogroups.com, "yobbo70" <yobbo70@> wrote:
> >
> > Ok looks like I might have got the 50R video out wrong sorry for the / my confusion, I have placed some photos in the photo section of the MVC007 RGB,MDA,CGA,EGA to VGA Converter I purchased of ebay for $185 USD plus shipping to me in Australia, it took a matter of seconds to plug in and set up. The photos were taken with a iPhone so the quality is not to good, and the LCD screen is a 19" wall mounted (and very dirty, has been up there for years)
> >
> > I am so happy with the video out quality of this converter, finally have a screen I can see, and to me it`s worth every cent
> >
> > thanks again
> >
> > Ian VK4NFL
> >
> > --- In hp8924@yahoogroups.com, "keith" <oldmill@> wrote:
> > >
> > > Measure the un-terminated video output on a scope and it might be easier to note the amplitude of the sync pulse or the video if it is easy to see. Then terminate the out put with a 75 ohm resistor and if it drops by half, then it is 75 ohm output, which I am sure it is. The 8920 is for sure.
> > >
> > > Keith
> > >
> > > From: Robert Atkinson
> > > Sent: Thursday, February 09, 2012 1:43 AM
> > > To: hp8924@yahoogroups.com
> > > Subject: Re: [hp8924] Video out Signal 19.2kHz 50 Ohm to 75 Ohm

> > >
> > >
> > >
> > > Hi Ian,
> > > What makes you think the 8924C video output is 50R? As far as I'm aware it is 75R which is standard for video (the connector may be a 50R type). At this line rate a 50R/75R mis-match would not matter unless you were using very long (>10') video cables.
> > >
> > > Regards,
> > > Robert G8RPI.
> > >
> > > From: yobbo70 <yobbo70@>
> > > To: hp8924@yahoogroups.com
> > > Sent: Wednesday, 8 February 2012, 8:14
> > > Subject: [hp8924] Video out Signal 19.2kHz 50 Ohm to 75 Ohm
> > >
> > >
> > >
> > >
> > >
> > > Hello, I purchased a MVC007 Video converter from Moncotech. and it works well with the 8924c and my 19" LCD monitor, finally I can see whats going on without glasses
> > >
> > > However the video signal from the 8924c is 50ohm and the MVC007 requires a 75ohm signal, although it is working fine, what are the consequences of this mismatch? is there a way to convert the 50 ohm signal to 75 Ohm?
> > >
> > > http://www.moncotech.com/products/mvc007/spec.php
> > >
> > > Thank you very much
> > >
> > > Ian VK4NFL
> > >
> >
>

# 690. RE: [hp8924] Re: Microphone for HP8924

Yahoo group: hp8924
Date: 2012-02-18 00:24:49 UTC
From: Mike (WM4B)
Topic: 685  Message: 690

Thanks, but I don☐t see the point in spending money on a connector when an 8-pin DIN (from the junk box) has a nice tight fit.

Found a couple microphones in the junk box I☐ll break out some jumper wires and see if any of them work well enough to warrant heating up the soldering iron.

73,

Mike
WM4B

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of brad_k9mhz
Sent: Friday, February 17, 2012 6:27 PM
To: hp8924@yahoogroups.com
Subject: [hp8924] Re: Microphone for HP8924

Yep, and Hi-Z, I think. Mouser has the connectors, too.

Brad, K9MHZ

--- In hp8924@yahoogroups.com, "Mike \(WM4B\)" <mwbesemer@...> wrote:
>
> Looking for a microphone for my -8924. What have ya'll found that works? I
> have a connector that will do the job... just need to know what microphones
> are usable. I have several old MICOR microphones and a spare MAXTRAC
> microphone or two... either of those acceptable?
>
> 73,
>
> Mike
> WM4B
>

# 691. Re: Microphone for HP8924

Yahoo group: hp8924
Date: 2012-02-18 02:06:20 UTC
From: willcoele@ameritech.net
Topic: 685  Message: 691

A friend gave me a Motorola microphone. I'm not sure where it's from but it's red and it was very dirty. I soaked the housing in soapy water, replaced the cord and wired the bayonet DIN plug from Mouser. I found a replacement, D-104 element on eBay for about 12 bucks. The element works great and the microphone looks cool connected to my 8924C. I mounded a microphone clip to the side wall. I'll take a picture and up load it to the photo section.

Jack WA9FVP
Willco Electronics

--- In hp8924@yahoogroups.com, "Mike \(WM4B\)" <mwbesemer@...> wrote:
>
> Thanks, but I don't see the point in spending money on a connector when an
> 8-pin DIN (from the junk box) has a nice tight fit.
>
> Found a couple microphones in the junk box I'll break out some jumper wires
> and see if any of them work well enough to warrant heating up the soldering
> iron.
>
> 73,
>

# 692. Re: [hp8924] Re: Video out Signal 19.2kHz 50 Ohm to 75 Ohm

Yahoo group: hp8924
Date: 2012-02-18 08:38:51 UTC
From: Robert Atkinson
Topic: 662  Message: 692

Hi,
I thought it was expensive too. All you need is a Gonbes board ($30), sync seperator, case and supply. If someone wants mine ready bulit they can have it for $150 inc shipping :)

Robert G8RPI

---
From: brad_k9mhz <bradknapp@...>
To: hp8924@...m
Sent: Friday, 17 February 2012, 23:33
Subject: [hp8924] Re: Video out Signal 19.2kHz 50 Ohm to 75 Ohm

Got mine the other day. Fires right up with no mods required. The wall wart the guy (Chinese grad student in New York on eBay....moncotech or something) was absolute crap. No documentation, either. He was typically stubborn, and obviously didn't care about his buyer. The unit is expensive, the power supply is worthless, the unit itself is good, and he's definitely not good.

FWIW.

--- In hp8924@yahoogroups.com, "brad_k9mhz" <bradknapp@...> wrote:
>
> The photos look pretty darn good to me....thanks for posting.
>
> Brad, K9MHZ
>
>
>
> --- In hp8924@yahoogroups.com, "yobbo70" <yobbo70@> wrote:
> >
> > Ok looks like I might have got the 50R video out wrong sorry for the / my confusion, I have placed some photos in the photo section of the MVC007 RGB,MDA,CGA,EGA to VGA Converter I purchased of ebay for $185 USD plus shipping to me in Australia, it took a matter of seconds to plug in and set up. The photos were taken with a iPhone so the quality is not to good, and the LCD screen is a 19" wall mounted (and very dirty, has been up there for years)
> >
> > I am so happy with the video out quality of this converter, finally have a screen I can see, and to me it`s worth every cent
> >
> > thanks again
> >
> > Ian VK4NFL
> >
> > --- In hp8924@yahoogroups.com, "keith" <oldmill@> wrote:
> > >

> > > Measure the un-terminated video output on a scope and it might be easier to note the amplitude of the sync pulse or the video if it is easy to see. Then terminate the out put with a 75 ohm resistor and if it drops by half, then it is 75 ohm output, which I am sure it is. The 8920 is for sure.
> > >
> > > Keith
> > >
> > > From: Robert Atkinson
> > > Sent: Thursday, February 09, 2012 1:43 AM
> > > To: hp8924@yahoogroups.com
> > > Subject: Re: [hp8924] Video out Signal 19.2kHz 50 Ohm to 75 Ohm
> > >
> > >
> > >
> > > Hi Ian,
> > > What makes you think the 8924C video output is 50R? As far as I'm aware it is 75R which is standard for video (the connector may be a 50R type). At this line rate a 50R/75R mis-match would not matter unless you were using very long (>10') video cables.
> > >
> > > Regards,
> > > Robert G8RPI.
> > >
> > > From: yobbo70 <yobbo70@>
> > > To: hp8924@yahoogroups.com
> > > Sent: Wednesday, 8 February 2012, 8:14
> > > Subject: [hp8924] Video out Signal 19.2kHz 50 Ohm to 75 Ohm
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> > > Hello, I purchased a MVC007 Video converter from Moncotech. and it works well with the 8924c and my 19" LCD monitor, finally I can see whats going on without glasses
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> > > However the video signal from the 8924c is 50ohm and the MVC007 requires a 75ohm signal, although it is working fine, what are the consequences of this mismatch? is there a way to convert the 50 ohm signal to 75 Ohm?
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> > > http://www.moncotech.com/products/mvc007/spec.php
> > >
> > > Thank you very much
> > >
> > > Ian VK4NFL
> > >
> >
>

# 693. Re: Microphone for HP8924

Yahoo group: hp8924
Date: 2012-02-18 17:56:38 UTC
From: wb6dgn
Topic: 685  Message: 693

Motorola mics. won't work (or any mic. that needs external power) as the 8924 doesn't have power available at the Mic/Accy connector. As others have noted, the GE mic is a good choice as is Regency, etc. There's a guy on ebay selling replacement CB mics for about $12. Those should work fine. OR you can still order one from Agilent (last I checked). They had some at their facility in Germany for, as I recall, about $770 PLUS shipping! Any takers???
Tom

--- In hp8924@yahoogroups.com, "Mike \(WM4B\)" <mwbesemer@...> wrote:
>
> Looking for a microphone for my -8924. What have ya'll found that works? I
> have a connector that will do the job... just need to know what microphones
> are usable. I have several old MICOR microphones and a spare MAXTRAC
> microphone or two... either of those acceptable?
>
> 73,
>
> Mike
> WM4B
>

# 694. Re: Microphone for HP8924

Yahoo group: hp8924
Date: 2012-02-18 18:54:37 UTC
From: willcoele@ameritech.net
Topic: 685  Message: 694

I upladed photos of my modified Motorola microphone. I replaced the cord, wired a DIN plug from Mouser(part number 523-T3524-501). It's only 8 bucks! The D104 element came from eBay (12 bucks). The current eBay item number is 220952105730.

--- In hp8924@yahoogroups.com, "wb6dgn" <wb6dgn@...> wrote:
>
>
>
> Motorola mics. won't work (or any mic. that needs external power) as the 8924 doesn't have power available at the Mic/Accy connector. As others have noted, the GE mic is a good choice as is Regency, etc. There's a guy on ebay selling replacement CB mics for about $12. Those should work fine. OR you can still order one from Agilent (last I checked). They had some at their facility in Germany for, as I recall, about $770 PLUS shipping! Any takers???
> Tom
>

# 695. Re: [hp8924] Re: Video out Signal 19.2kHz 50 Ohm to 75 Ohm

Yahoo group: hp8924
Date: 2012-02-19 19:53:14 UTC
From: Ralph S. Turk
Topic: 662  Message: 695

Robert
Do you have a model # for the Gonbes Board. Any hook up problem? What kind of monitor did you use?
Thanks
Ralph, W7HSG

----- Original Message -----
From: "Robert Atkinson" <robert8rpi@...>
To: hp8924@yahoogroups.com
Sent: Saturday, February 18, 2012 1:38:51 AM
Subject: Re: [hp8924] Re: Video out Signal 19.2kHz 50 Ohm to 75 Ohm

Hi,
I thought it was expensive too. All you need is a Gonbes board ($30), sync seperator, case and supply. If someone wants mine ready bulit they can have it for $150 inc shipping :)

Robert G8RPI

From: brad_k9mhz <bradknapp@indy.rr.com>
To: hp8924@yahoogroups.com
Sent: Friday, 17 February 2012, 23:33
Subject: [hp8924] Re: Video out Signal 19.2kHz 50 Ohm to 75 Ohm

Got mine the other day. Fires right up with no mods required. The wall wart the guy (Chinese grad student in New York on eBay....moncotech or something) was absolute crap. No documentation, either. He was typically stubborn, and obviously didn't care about his buyer. The unit is expensive, the power supply is worthless, the unit itself is good, and he's definitely not good.

FWIW.

--- In hp8924@yahoogroups.com , "brad_k9mhz" <bradknapp@...> wrote:
>
> The photos look pretty darn good to me....thanks for posting.
>
> Brad, K9MHZ
>
>
>
> --- In hp8924@yahoogroups.com , "yobbo70" <yobbo70@> wrote:
> >
> > Ok looks like I might have got the 50R video out wrong sorry for the / my confusion, I have placed some photos in the photo section of the MVC007 RGB,MDA,CGA,EGA to VGA Converter I purchased of ebay for $185 USD plus shipping to me in Australia, it took a matter of seconds to plug in and set up. The photos were taken with a iPhone so the quality is not to good, and the LCD screen is a 19" wall mounted (and very dirty, has been up there for years)

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> > I am so happy with the video out quality of this converter, finally have a screen I can see, and to me it`s worth every cent
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> > thanks again
> >
> > Ian VK4NFL
> >
> > --- In hp8924@yahoogroups.com , "keith" <oldmill@> wrote:
> > >
> > > Measure the un-terminated video output on a scope and it might be easier to note the amplitude of the sync pulse or the video if it is easy to see. Then terminate the out put with a 75 ohm resistor and if it drops by half, then it is 75 ohm output, which I am sure it is. The 8920 is for sure.
> > >
> > > Keith
> > >
> > > From: Robert Atkinson
> > > Sent: Thursday, February 09, 2012 1:43 AM
> > > To: hp8924@yahoogroups.com
> > > Subject: Re: [hp8924] Video out Signal 19.2kHz 50 Ohm to 75 Ohm
> > >
> > >
> > >
> > > Hi Ian,
> > > What makes you think the 8924C video output is 50R? As far as I'm aware it is 75R which is standard for video (the connector may be a 50R type). At this line rate a 50R/75R mis-match would not matter unless you were using very long (>10') video cables.
> > >
> > > Regards,
> > > Robert G8RPI.
> > >
> > > From: yobbo70 <yobbo70@>
> > > To: hp8924@yahoogroups.com
> > > Sent: Wednesday, 8 February 2012, 8:14
> > > Subject: [hp8924] Video out Signal 19.2kHz 50 Ohm to 75 Ohm
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> > > Hello, I purchased a MVC007 Video converter from Moncotech. and it works well with the 8924c and my 19" LCD monitor, finally I can see whats going on without glasses
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> > > http://www.moncotech.com/products/mvc007/spec.php
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> > > Thank you very much
> > >
> > > Ian VK4NFL
> > >
> >
>

# 696. Re: [hp8924] Re: Video out Signal 19.2kHz 50 Ohm to 75 Ohm

Yahoo group: hp8924
Date: 2012-02-19 20:51:52 UTC
From: Robert Atkinson
Topic: 662  Message: 696

Hi,
I used a GBS8200. The 8220 is similar but has outputs for two monitors. I used a standard 4:3 SVGA LCD screen and an LM1881 as a sync separator (overkill, a lm311 voltage comparator works OK).  Search old posts to the group for more info.

---
From: Ralph S. Turk <w7hsg@...>
To: hp8924@yahoogroups.com
Sent: Sunday, 19 February 2012, 19:53
Subject: Re: [hp8924] Re: Video out Signal 19.2kHz 50 Ohm to 75 Ohm

Robert
Do you have a model # for the Gonbes Board.  Any hook up problem?  What kind of monitor did you use?
Thanks
Ralph, W7HSG

---
From: "Robert Atkinson" <robert8rpi@...>
To: hp8924@yahoogroups.com
Sent: Saturday, February 18, 2012 1:38:51 AM
Subject: Re: [hp8924] Re: Video out Signal 19.2kHz 50 Ohm to 75 Ohm

Hi,
I thought it was expensive too. All you need is a Gonbes board ($30), sync seperator, case and supply. If someone wants mine ready bulit they can have it for $150 inc shipping :)

Robert G8RPI

---
From: brad_k9mhz <bradknapp@...>
To: hp8924@yahoogroups.com
Sent: Friday, 17 February 2012, 23:33
Subject: [hp8924] Re: Video out Signal 19.2kHz 50 Ohm to 75 Ohm

Got mine the other day. Fires right up with no mods required. The wall wart the guy (Chinese grad student in New York on eBay....moncotech or something) was absolute crap. No documentation, either. He was typically stubborn, and obviously didn't care about his buyer. The unit is expensive, the power supply is worthless, the unit itself is good, and he's definitely not good.

FWIW.

--- In hp8924@yahoogroups.com, "brad_k9mhz" <bradknapp@...> wrote:
>
> The photos look pretty darn good to me....thanks for posting.
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> Brad, K9MHZ
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>
>
> --- In hp8924@yahoogroups.com, "yobbo70" <yobbo70@> wrote:
> >
> > Ok looks like I might have got the 50R video out wrong sorry for the / my confusion, I have placed some photos in the photo section of the MVC007 RGB,MDA,CGA,EGA to VGA Converter I purchased of ebay for $185 USD plus shipping to me in Australia, it took a matter of seconds to plug in and set up. The photos were taken with a iPhone so the quality is not to good, and the LCD screen is a 19" wall mounted (and very dirty, has been up there for years)
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> > I am so happy with the video out quality of this converter, finally have a screen I can see, and to me it`s worth every cent
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> > thanks again
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> > Ian VK4NFL
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> > --- In hp8924@yahoogroups.com, "keith" <oldmill@> wrote:
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> > >
> > > Keith
> > >
> > > From: Robert Atkinson
> > > Sent: Thursday, February 09, 2012 1:43 AM
> > > To: hp8924@yahoogroups.com
> > > Subject: Re: [hp8924] Video out Signal 19.2kHz 50 Ohm to 75 Ohm
> > >
> > >
> > >
> > > Hi Ian,
> > > What makes you think the 8924C video output is 50R? As far as I'm aware it is 75R which is standard for video (the connector may be a 50R type). At this line rate a 50R/75R mis-match would not matter unless you were using very long (>10') video cables.
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> > > Regards,
> > > Robert G8RPI.
> > >
> > > From: yobbo70 <yobbo70@>
> > > To: hp8924@yahoogroups.com
> > > Sent: Wednesday, 8 February 2012, 8:14
> > > Subject: [hp8924] Video out Signal 19.2kHz 50 Ohm to 75 Ohm
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> > >

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> > > Hello, I purchased a MVC007 Video converter from Moncotech. and it works well with the 8924c and my 19" LCD monitor, finally I can see whats going on without glasses
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> > > However the video signal from the 8924c is 50ohm and the MVC007 requires a 75ohm signal, although it is working fine, what are the consequences of this mismatch? is there a way to convert the 50 ohm signal to 75 Ohm?
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> > > http://www.moncotech.com/products/mvc007/spec.php
> > >
> > > Thank you very much
> > >
> > > Ian VK4NFL
> > >
> >
>

# 697. Re: Video out Signal 19.2kHz 50 Ohm to 75 Ohm

Yahoo group: hp8924
Date: 2012-02-19 21:57:52 UTC
From: willcoele@ameritech.net
Topic: 662  Message: 697

I uploaded photos to the photo section showing modifications and the sync separator in the files section that I did on the GBS8200.

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Hi,
> I used a GBS8200. The 8220 is similar but has outputs for two monitors. I used a standard 4:3 SVGA LCD screen and an LM1881 as a sync separator (overkill, a lm311 voltage comparator works OK).Â  Search old posts to the group for more info.
>
>
>

# 698. Re: Video out Signal 19.2kHz 50 Ohm to 75 Ohm

Yahoo group: hp8924
Date: 2012-02-19 22:14:28 UTC
From: willcoele@ameritech.net
Topic: 662  Message: 698

On the subject of 50 Ohm to 75 Ohm the 8924 outputs a digital video signal. There's no analog video levels to deal with. The small impedance change is irrelevant. There might be a small change in the brightness but you can always compensate using the brightness or the contrast settings. There will be very little change in the sync level so you won't have to worry about that.

--- In hp8924@yahoogroups.com, "willcoele@..." <willcoele@...> wrote:
>
> I uploaded photos to the photo section showing modifications and the sync separator in the files section that I did on the GBS8200.
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>
> --- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@> wrote:
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> > Hi,
> > I used a GBS8200. The 8220 is similar but has outputs for two monitors. I used a standard 4:3 SVGA LCD screen and an LM1881 as a sync separator (overkill, a lm311 voltage comparator works OK).Â  Search old posts to the group for more info.
> >
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>

# 699. RE: [hp8924] Re: Video out Signal 19.2kHz 50 Ohm to 75 Ohm

Yahoo group: hp8924
Date: 2012-02-19 23:21:25 UTC
From: Mike, KD7MG
Topic: 662  Message: 699

I tried it with the dual-output GBS8220 and a LM1881 sync separator, but did not fare as well. I actually had better luck without the sync separator and just putting the composite video from the 8924 directly into the “Y” component BNC port. The picture was solid and stable, however, the image was horizontally shifted off the screen a bit on the left side.

I had to table the project temporarily while my o’scope underwent some repairs, but I can look at it again when I get a break in my schedule. I don’t know if I’ll be able to center the image or not, as (for some reason) the menu controls to do that are only available for the CGE/EGA/VGA inputs and not for the component input.

I’m tempted to buy the single output GBS8200 and see if there is indeed a difference between the two units.

Mike, KD7MG

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Robert Atkinson
Sent: Sunday, February 19, 2012 1:52 PM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Re: Video out Signal 19.2kHz 50 Ohm to 75 Ohm

Hi,

I used a GBS8200. The 8220 is similar but has outputs for two monitors. I used a standard 4:3 SVGA LCD screen and an LM1881 as a sync separator (overkill, a lm311 voltage comparator works OK). Search old posts to the group for more info.

---

From: Ralph S. Turk <w7hsg@...>
To: hp8924@yahoogroups.com
Sent: Sunday, 19 February 2012, 19:53
Subject: Re: [hp8924] Re: Video out Signal 19.2kHz 50 Ohm to 75 Ohm

Robert

Do you have a model # for the Gonbes Board. Any hook up problem? What kind of monitor

did you use?

Thanks

Ralph, W7HSG

---

From: "Robert Atkinson" <robert8rpi@yahoo.co.uk>
To: hp8924@yahoogroups.com
Sent: Saturday, February 18, 2012 1:38:51 AM
Subject: Re: [hp8924] Re: Video out Signal 19.2kHz 50 Ohm to 75 Ohm

Hi,

I thought it was expensive too. All you need is a Gonbes board ($30), sync seperator, case and supply. If someone wants mine ready bulit they can have it for $150 inc shipping :)

Robert G8RPI

---

From: brad_k9mhz <bradknapp@...>
To: hp8924@yahoogroups.com
Sent: Friday, 17 February 2012, 23:33
Subject: [hp8924] Re: Video out Signal 19.2kHz 50 Ohm to 75 Ohm

Got mine the other day. Fires right up with no mods required. The wall wart the guy (Chinese grad student in New York on eBay....moncotech or something) was absolute crap. No documentation, either. He was typically stubborn, and obviously didn't care about his buyer. The unit is expensive, the power supply is worthless, the unit itself is good, and he's definitely not good.

FWIW.

--- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com> , "brad_k9mhz" <bradknapp@...> wrote:
>
> The photos look pretty darn good to me....thanks for posting.
>
> Brad, K9MHZ
>
>
>
> --- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com> , "yobbo70" <yobbo70@> wrote:
> >
> > Ok looks like I might have got the 50R video out wrong sorry for the / my confusion, I have placed some photos in the photo section of the MVC007 RGB,MDA,CGA,EGA to VGA Converter I purchased of ebay for $185 USD plus shipping to me in Australia, it took a matter of seconds to plug in and set up. The photos were taken with a iPhone so the quality is not to good, and the LCD screen is a 19" wall mounted (and very dirty, has been up there for years)
> >
> > I am so happy with the video out quality of this converter, finally have a screen I can see, and to me it`s worth every cent
> >
> > thanks again
> >
> > Ian VK4NFL
> >
> > --- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com> , "keith" <oldmill@> wrote:
> > >
> > > Measure the un-terminated video output on a scope and it might be easier to note the amplitude of the sync pulse or the video if it is easy to see. Then terminate the out put

with a 75 ohm resistor and if it drops by half, then it is 75 ohm output, which I am sure it is. The 8920 is for sure.
> > >
> > > Keith
> > >
> > > From: Robert Atkinson
> > > Sent: Thursday, February 09, 2012 1:43 AM
> > > To: hp8924@...m <mailto:hp8924%40yahoogroups.com>
> > > Subject: Re: [hp8924] Video out Signal 19.2kHz 50 Ohm to 75 Ohm
> > >
> > >
> > >
> > > Hi Ian,
> > > What makes you think the 8924C video output is 50R? As far as I'm aware it is 75R which is standard for video (the connector may be a 50R type). At this line rate a 50R/75R mis-match would not matter unless you were using very long (>10') video cables.
> > >
> > > Regards,
> > > Robert G8RPI.
> > >
> > > From: yobbo70 <yobbo70@>
> > > To: hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>
> > > Sent: Wednesday, 8 February 2012, 8:14
> > > Subject: [hp8924] Video out Signal 19.2kHz 50 Ohm to 75 Ohm
> > >
> > >
> > >
> > >
> > >
> > > Hello, I purchased a MVC007 Video converter from Moncotech. and it works well with the 8924c and my 19" LCD monitor, finally I can see whats going on without glasses
> > >
> > > However the video signal from the 8924c is 50ohm and the MVC007 requires a 75ohm signal, although it is working fine, what are the consequences of this mismatch? is there a way to convert the 50 ohm signal to 75 Ohm?
> > >
> > > http://www.moncotech.com/products/mvc007/spec.php
> > >
> > > Thank you very much
> > >
> > > Ian VK4NFL

# 700. Re: Video out Signal 19.2kHz 50 Ohm to 75 Ohm

Yahoo group: hp8924
Date: 2012-02-20 01:25:22 UTC
From: willcoele@ameritech.net
Topic: 662  Message: 700

I would like to know if you had the fading problem or did you add the resistors like I did with my GBS8200?

--- In hp8924@yahoogroups.com, "Mike, KD7MG" <kd7mg@...> wrote:
>
> I tried it with the dual-output GBS8220 and a LM1881 sync separator, but did not fare as well. I actually had better luck without the sync separator and just putting the composite video from the 8924 directly into the â□□Yâ□□ component BNC port. The picture was solid and stable, however, the image was horizontally shifted off the screen a bit on the left side.
>
>

# 701. Re: Video out Signal 19.2kHz 50 Ohm to 75 Ohm

Yahoo group: hp8924
Date: 2012-02-20 03:20:16 UTC
From: mike_dot_groves
Topic: 662  Message: 701

Not that I noticed, but I didn't run it for an extended period either. The component input that I used might be better terminated than the CGA/EGA/VGA inputs apparently are.

Mike, KD7MG

--- In hp8924@yahoogroups.com, "willcoele@..." <willcoele@...> wrote:
>
> I would like to know if you had the fading problem or did you add the resistors like I did with my GBS8200?
>
> --- In hp8924@yahoogroups.com, "Mike, KD7MG" <kd7mg@> wrote:
> >
> > I tried it with the dual-output GBS8220 and a LM1881 sync separator, but did not fare as well. I actually had better luck without the sync separator and just putting the composite video from the 8924 directly into the â□□Yâ□□ component BNC port. The picture was solid and stable, however, the image was horizontally shifted off the screen a bit on the left side.

# 702. Re: Microphone for HP8924

Yahoo group: hp8924
Date: 2012-02-20 13:26:34 UTC
From: brad_k9mhz
Topic: 685  Message: 702

Whatever.

Mouser's got the connectors if anyone needs them....just sayin'

--- In hp8924@yahoogroups.com, "Mike \(WM4B\)" <mwbesemer@...> wrote:
>
> Thanks, but I don't see the point in spending money on a connector when an
> 8-pin DIN (from the junk box) has a nice tight fit.
>
> Found a couple microphones in the junk box I'll break out some jumper wires
> and see if any of them work well enough to warrant heating up the soldering
> iron.
>
> 73,
>
> Mike
> WM4B
>
> From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of
> brad_k9mhz
> Sent: Friday, February 17, 2012 6:27 PM
> To: hp8924@yahoogroups.com
> Subject: [hp8924] Re: Microphone for HP8924
>
>
> Yep, and Hi-Z, I think. Mouser has the connectors, too.
>
> Brad, K9MHZ
>
> --- In hp8924@yahoogroups.com, "Mike \(WM4B\)" <mwbesemer@> wrote:
> >
> > Looking for a microphone for my -8924. What have ya'll found that works? I
> > have a connector that will do the job... just need to know what
> microphones
> > are usable. I have several old MICOR microphones and a spare MAXTRAC
> > microphone or two... either of those acceptable?
> >
> > 73,
> >
> > Mike
> > WM4B
> >
>

# 703. GPIB with Agilent IO Library Locks 8924C keypad.

Yahoo group: hp8924
Date: 2012-02-20 16:52:40 UTC
From: jsternmd
Topic: 703  Message: 703

I am just beginning to play with my Agilent 82357B USB adapter. I hope to write some graphic interfaces for the 8924C as RF Tools from that Australia company is so very expensive.

I installed latest Agilent IO LIbs v16 and the 8924C is recognized and basic IO commands are recevied and sent properly. I have the 8924C set in Listen/talk mode but the monitor keypad is locked out to everything. I only have Agilent Control IO Tool running which I thought was a required interrface for any communication between PC and device for simple logging.

Any advice appreciated.

tia
jerry

# 704. RE: [hp8924] GPIB with Agilent IO Library Locks 8924C keypad.

Yahoo group: hp8924
Date: 2012-02-21 02:21:48 UTC
From: Mike, KD7MG
Topic: 703  Message: 704

Anytime you communicate to the 8924C over the GBIP bus, the instrument will switch to "Remote" mode, indicated by an "R" in the top right corner of the display. In Remote mode, most front panel buttons are locked out. One that is not, is the "Local" button. Tap that once and your front panel will function again. You can also put the instrument back in Local mode over GPIB with the "GTL" bus command, but it should be the last command sent.

Mike, KD7MG

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of jsternmd
Sent: Monday, February 20, 2012 9:53 AM
To: hp8924@yahoogroups.com
Subject: [hp8924] GPIB with Agilent IO Library Locks 8924C keypad.

I am just beginning to play with my Agilent 82357B USB adapter. I hope to write some graphic interfaces for the 8924C as RF Tools from that Australia company is so very expensive.

I installed latest Agilent IO LIbs v16 and the 8924C is recognized and basic IO commands are recevied and sent properly. I have the 8924C set in Listen/talk mode but the monitor keypad is locked out to everything. I only have Agilent Control IO Tool running which I thought was a required interrface for any communication between PC and device for simple logging.

Any advice appreciated.

tia

# 705. GBS8200 for Sale

Yahoo group: hp8924
Date: 2012-02-23 00:26:09 UTC
From: abrigno1
Topic: 705  Message: 705

I bought a GBS-8200 off Ebay to make a converter for my 8924C. When I looked at the solder joints I felt I didn't have the right tools and my hands weren't steady enought at 65 and bought the MVC007 instead. The GBS-8200 is for sale and the "Price is Right". It is new in box and I only took it out and looked at it. Contact me off list if you are interested.

I am looking forward to the MVC007. I have several LCD monitors both 17 and 19 inch and it will be interesting. What I have seen so far looks great. Hats off to the experimenters!!!!!!

For info, the guy on Ebay with the MVC007 had a "Buy It Now" or "Make Offer". I offered $185 and he took it with free shipping.

abrigno@... <mailto:abrigno@...>

Tony Brignole WA4KHN

Memphis

# 706. Re: [hp8924] GBS8200 for Sale

Yahoo group: hp8924
Date: 2012-02-23 00:30:04 UTC
From: John
Topic: 705  Message: 706

I'm interested, Tony. What are you asking?

John
WB5NFC

Sent from my iPhone

On Feb 22, 2012, at 6:26 PM, "abrigno1" <abrigno@...> wrote:

> I bought a GBS-8200 off Ebay to make a converter for my 8924C. When I looked at the solder joints I felt I didn't have the right tools and my hands weren't steady enought at 65 and bought the MVC007 instead. The GBS-8200 is for sale and the "Price is Right". It is new in box and I only took it out and looked at it. Contact me off list if you are interested.
>
> I am looking forward to the MVC007. I have several LCD monitors both 17 and 19 inch and it will be interesting. What I have seen so far looks great. Hats off to the experimenters!!!!!!
>
> For info, the guy on Ebay with the MVC007 had a "Buy It Now" or "Make Offer". I offered $185 and he took it with free shipping.
>
> abrigno@...
>
> Tony Brignole WA4KHN
>
> Memphis
>
>
>
>
>
>
> TODAY(Beta) • Powered by Yahoo!
> Why Elvis's onscreen love became a nun
> Often compared to Grace Kelly, Dolores Hart left movies and lived a life far from Hollywood.
> Privacy Policy

# 707. RF input/output Problem!!

Yahoo group: hp8924
Date: 2012-02-23 20:47:19 UTC
From: trjohn2049
Topic: 707  Message: 707

Warmed up unit for 30 mins Rom V A.06.33 60Watt Rf input version

I have a problem with the Rf input/output
At power up it shows all self test passed.

After that a warbling sound is heard and then goes off some times,and displays the message
(Reduce RF power input)

When zeroing the RF power, A Message comes on the top of the screen
and it says (Voltage out of bound. Remove RF power before zeroing).
I did all the service tests and it fails in the (RFDIAGS3) RF input
test and stop at the *** RF Dectector (low power),no signal ***.

Some times the unit will work and pass all the RF test and will zero
the RF power.
My next step is to check power supply for problems
upload Cal data for 14db 60watt Atten from Sram card
Maybe inop A-5 or A27 Refer module?
Any ideas from the group? Anyone have the same problem.
Terry

# 708. Re: GBS8200 for Sale

Yahoo group: hp8924
Date: 2012-02-24 22:11:45 UTC
From: yobbo70
Topic: 705  Message: 708

Hi Tony, I have been using my MVC007 for a few weeks now, without any problems, I still get a big smile from ear to ear everytime I look up at the 19" monitor

--- In hp8924@yahoogroups.com, "abrigno1" <abrigno@...> wrote:
>
>
> I bought a GBS-8200 off Ebay to make a converter for my 8924C. When I
> looked at the solder joints I felt I didn't have the right tools and my
> hands weren't steady enought at 65 and bought the MVC007 instead. The
> GBS-8200 is for sale and the "Price is Right". It is new in box and I
> only took it out and looked at it. Contact me off list if you are
> interested.
>
> I am looking forward to the MVC007. I have several LCD monitors both 17
> and 19 inch and it will be interesting. What I have seen so far looks
> great. Hats off to the experimenters!!!!!!
>
> For info, the guy on Ebay with the MVC007 had a "Buy It Now" or "Make
> Offer". I offered $185 and he took it with free shipping.
>
> abrigno@... <mailto:abrigno@...>
>
> Tony Brignole WA4KHN
>
> Memphis
>

# 709. Re: [hp8924] Re: GBS8200 for Sale

Yahoo group: hp8924
Date: 2012-02-24 22:40:56 UTC
From: Tony Brignole
Topic: 705  Message: 709

I just got mine in the mail about 10 minutes ago and will hook up tomorrow. I have 10,000 BNC jumpers but can't find a 75 ohm one. I am sure I have one somewhere. Bet when I find it, it will be 75 feet long.

Are you using the 5V adaper they sent you?

----- Original Message -----
From: yobbo70
To: hp8924@yahoogroups.com
Sent: Friday, February 24, 2012 4:11 PM
Subject: [hp8924] Re: GBS8200 for Sale

Hi Tony, I have been using my MVC007 for a few weeks now, without any problems, I still get a big smile from ear to ear everytime I look up at the 19" monitor

--- In hp8924@yahoogroups.com, "abrigno1" <abrigno@...> wrote:
>
>
> I bought a GBS-8200 off Ebay to make a converter for my 8924C. When I
> looked at the solder joints I felt I didn't have the right tools and my
> hands weren't steady enought at 65 and bought the MVC007 instead. The
> GBS-8200 is for sale and the "Price is Right". It is new in box and I
> only took it out and looked at it. Contact me off list if you are
> interested.
>
> I am looking forward to the MVC007. I have several LCD monitors both 17
> and 19 inch and it will be interesting. What I have seen so far looks
> great. Hats off to the experimenters!!!!!!
>
> For info, the guy on Ebay with the MVC007 had a "Buy It Now" or "Make
> Offer". I offered $185 and he took it with free shipping.
>
> abrigno@... <mailto:abrigno@...>
>
> Tony Brignole WA4KHN
>
> Memphis
>

# 710. RE: [hp8924] Re: GBS8200 for Sale

Yahoo group: hp8924
Date: 2012-02-24 23:37:33 UTC
From: Mike, KD7MG
Topic: 705  Message: 710

All this chatter over 50 vs 75 ohm for such a short run. Seriously, you
won□t be able to detect any difference in the picture. In fact, if you
REALLY want to get picky, then you□ll have to replace the BNC connector on
the back of the 8924, because (surprise!) it□s a garden variety 50 ohm
bulkhead BNC, like all the rest back there.

Just hook up what you have, fire up your analyzer and enjoy your big
display!

Mike

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of
Tony Brignole
Sent: Friday, February 24, 2012 3:41 PM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Re: GBS8200 for Sale

I just got mine in the mail about 10 minutes ago and will hook up tomorrow.
I have 10,000 BNC jumpers but can't find a 75 ohm one. I am sure I have one
somewhere. Bet when I find it, it will be 75 feet long.

Are you using the 5V adaper they sent you?

----- Original Message -----
From: yobbo70
To: hp8924@yahoogroups.com
Sent: Friday, February 24, 2012 4:11 PM
Subject: [hp8924] Re: GBS8200 for Sale

Hi Tony, I have been using my MVC007 for a few weeks now, without any
problems, I still get a big smile from ear to ear everytime I look up at the
19" monitor

--- In hp8924@yahoogroups.com, "abrigno1" <abrigno@...> wrote:
>
>
> I bought a GBS-8200 off Ebay to make a converter for my 8924C. When I
> looked at the solder joints I felt I didn't have the right tools and my
> hands weren't steady enought at 65 and bought the MVC007 instead. The
> GBS-8200 is for sale and the "Price is Right". It is new in box and I
> only took it out and looked at it. Contact me off list if you are
> interested.
>
> I am looking forward to the MVC007. I have several LCD monitors both 17
> and 19 inch and it will be interesting. What I have seen so far looks
> great. Hats off to the experimenters!!!!!!
>

> For info, the guy on Ebay with the MVC007 had a "Buy It Now" or "Make
> Offer". I offered $185 and he took it with free shipping.
>
> abrigno@... <mailto:abrigno@...>
>
> Tony Brignole WA4KHN
>
> Memphis
>

# 711. Re: RF input/output Problem!!

Yahoo group: hp8924
Date: 2012-02-25 04:52:23 UTC
From: willcoele@ameritech.net
Topic: 707  Message: 711

The problem could be a bad op-amp on the A23-2 "Electronic Input Section". I had a similar problem with my 8924C and I had to remove the monitor assembly to get the A23 aluminum casting. There are about 50 screws to remove the cover. If my memory serves me I replaced U2 an OP-467GS. You can get it from Digikey but they are expensive. I used a TLO84.

I didn't have a schematic at the time but I was able to connect the monitor and the A23 to run the unit. I measured voltages on the op-amps and found one where the output was stuck to the rail but I don't remember if it was the positive or negative rail.

--- In hp8924@yahoogroups.com, "trjohn2049" <trjohn2049@...> wrote:
>
> Warmed up unit for 30 mins Rom V A.06.33 60Watt Rf input version
>
> I have a problem with the Rf input/output
> At power up it shows all self test passed.
>
> After that a warbling sound is heard and then goes off some times,and displays the message (Reduce RF power input)
>
> When zeroing the RF power, A Message comes on the top of the screen
> and it says (Voltage out of bound. Remove RF power before zeroing).
> I did all the service tests and it fails in the (RFDIAGS3) RF input
> test and stop at the *** RF Dectector (low power),no signal ***.
>
> Some times the unit will work and pass all the RF test and will zero
> the RF power.
> My next step is to check power supply for problems
> upload Cal data for 14db 60watt Atten from Sram card
> Maybe inop A-5 or A27 Refer module?
> Any ideas from the group? Anyone have the same problem.
> Terry
>

# 712. Re: RF input/output Problem!!

Yahoo group: hp8924
Date: 2012-02-25 22:12:00 UTC
From: trjohn2049
Topic: 707  Message: 712

The A-23 module, Yes I will take the unit apart again and make some tests on the OP's you listed. And yes it will take some time to take
the A-23 module out again with all 50+ srcews.

I just can'nt see why sometimes the unit works fine with no problems
and acts up with the RFinput error messages .I guess this is just one of the intermit problems HP 8924C can have.
This time I going to go over everything from A-Z from checking all the
Caps,modules ETC!!! and clean out all the dust it collects.
I will post some files and info when I get to know the moniter better.
I wlll update you later on what the problem was.
I want to say thanks for helping me on my trouble shooting,and for all the info/files you posted.
Terry W0TRJ Aitkin, MN.

--- In hp8924@yahoogroups.com, "willcoele@..." <willcoele@...> wrote:
>
> The problem could be a bad op-amp on the A23-2 "Electronic Input Section". I had a similar problem with my 8924C and I had to remove the monitor assembly to get the A23 aluminum casting. There are about 50 screws to remove the cover. If my memory serves me I replaced U2 an OP-467GS. You can get it from Digikey but they are expensive. I used a TLO84.
>
> I didn't have a schematic at the time but I was able to connect the monitor and the A23 to run the unit. I measured voltages on the op-amps and found one where the output was stuck to the rail but I don't remember if it was the positive or negative rail.
>
>
> --- In hp8924@yahoogroups.com, "trjohn2049" <trjohn2049@> wrote:
> >
> > Warmed up unit for 30 mins Rom V A.06.33 60Watt Rf input version
> >
> > I have a problem with the RF input/output A23 module
> > At power up it shows all self test passed.
> >
> > After that a warbling sound is heard and then goes off some times,and displays the message (Reduce RF power input)
> >
> > When zeroing the RF power, A Message comes on the top of the screen
> > and it says (Voltage out of bound. Remove RF power before zeroing).
> > I did all the service tests and it fails in the (RFDIAGS3) RF input
> > test and stop at the *** RF Dectector (low power),no signal ***.
> >
> > Some times the unit will work and pass all the RF test and will zero
> > the RF power.

> > My next step is to check power supply for problems
> > upload Cal data for 14db 60watt Atten from Sram card
> > Maybe inop A-23 or A27 Refer module?
> > Any ideas from the group? Anyone have the same problem.
> > Terry
> >
>

# 713. MVC007

Yahoo group: hp8924
Date: 2012-02-26 00:19:55 UTC
From: abrigno1
Topic: 713  Message: 713

Just hooked up MVC007 to 8924. Works super great. View is spectacular and super sharp. I highly recommend it.

I have stack of LCD monitors and first one I grabbed was wide 21 inch. I think it was too big. I closed up screen shot to make it smaller and got artifact on bottom of screen like second retrace. When I opened up height and width to more fill screen, artifact went away. I will dig out older 15 inch which is plenty big enought for me. The way it is set on my cart I am directly in front of it about 12-15 inches away. With the 21 inch wide that close it was like Imax.

Just for the hell of it I tried it with a power point projector and results were equally spectacular.

# 714. Re: RF input/output Problem!!

Yahoo group: hp8924
Date: 2012-02-26 00:55:19 UTC
From: willcoele@ameritech.net
Topic: 707  Message: 714

My 8924 never measured TX power. There were error messages but it was 3 or 4 years ago and I don't remember what they were. I think there was a TX power zeroing problem but it wasn't intermittent. In your case it could be a bad solder connection somewhere on the A23 module.

I'm wondering if you can run the 8924 without the monitor unit with an external monitor and the GBS8200 connected to the video out. That way you can get easy access to the A23 module while the unit is powered.

--- In hp8924@yahoogroups.com, "trjohn2049" <trjohn2049@...> wrote:
>
> The A-23 module, Yes I will take the unit apart again and make some tests on the OP's you listed. And yes it will take some time to take
> the A-23 module out again with all 50+ srcews.
>
> I just can'nt see why sometimes the unit works fine with no problems
> and acts up with the RFinput error messages .I guess this is just one of the intermit problems HP 8924C can have.
> This time I going to go over everything from A-Z from checking all the
> Caps,modules ETC!!! and clean out all the dust it collects.
> I will post some files and info when I get to know the moniter better.
> I wlll update you later on what the problem was.
> I want to say thanks for helping me on my trouble shooting,and for all the info/files you posted.
> Terry W0TRJ Aitkin, MN.
>

# 715. Re: HP8920A/B Training Tape on VHS

Yahoo group: hp8924
Date: 2012-02-26 17:54:29 UTC
From: Frank
Topic: 670  Message: 715

m not sure if the tape has been copied as of yet, is it ready yet?
Im willing to pay for a copy...Thanks

Frank
KB2AYS

--- In hp8924@yahoogroups.com, "keith" <oldmill@...> wrote:
>
> I would love to see this too. I have an 8924 and an 8920. I have seen part of a video before but it was cut short so not complete and poor quality so I would welcome the chance to see a good copy.
> Keith
> NZ
>
> From: rfiemiguy
> Sent: Wednesday, February 15, 2012 6:18 PM
> To: hp8924@yahoogroups.com
> Subject: [hp8924] Re: HP8920A/B Training Tape on VHS
>
>
> Wow;
> I got a pretty good response on this. Tomorrow I will choose one and send the tape off to be converted. Thanks all who responded. One concern is where to host this file for the group as it will be too big for the files section. At least one person did offer to host temporarily. I will review my options, and am open to suggestions for hosting.
>
> --- In mailto:hp8924%40yahoogroups.com, "rfiemiguy" <rhyolite@> wrote:
> >
> > I have a VHS tape titled: Features and Basic Operation of HP 8920A Communications Test Set. I can find someone who has VHS to DVD conversion capabilities, I will gladly loan to them to create a digital copy for distribution. Not sure how long it is. Contact me off the board if you are interested.
> >
>

# 716. Re: [hp8924] Re: RF input/output Problem!!

Yahoo group: hp8924
Date: 2012-02-26 18:45:43 UTC
From: Robert Atkinson
Topic: 707  Message: 716

Yes,
you can run it without the internal monitor connected.

Robert G8RPI.

---
From: "willcoele@..." <willcoele@...>
To: hp8924@yahoogroups.com
Sent: Sunday, 26 February 2012, 0:55
Subject: [hp8924] Re: RF input/output Problem!!

My 8924 never measured TX power. There were error messages but it was 3 or 4 years ago and I don't remember what they were. I think there was a TX power zeroing problem but it wasn't intermittent. In your case it could be a bad solder connection somewhere on the A23 module.

I'm wondering if you can run the 8924 without the monitor unit with an external monitor and the GBS8200 connected to the video out. That way you can get easy access to the A23 module while the unit is powered.

--- In hp8924@yahoogroups.com, "trjohn2049" <trjohn2049@...> wrote:
>
> The A-23 module, Yes I will take the unit apart again and make some tests on the OP's you listed. And yes it will take some time to take
> the A-23 module out again with all 50+ srcews.
>
> I just can'nt see why sometimes the unit works fine with no problems
> and acts up with the RFinput error messages .I guess this is just one of the intermit problems HP 8924C can have.
> This time I going to go over everything from A-Z from checking all the
> Caps,modules ETC!!! and clean out all the dust it collects.
> I will post some files and info when I get to know the moniter better.
> I wlll update you later on what the problem was.
> I want to say thanks for helping me on my trouble shooting,and for all the info/files you posted.
> Terry W0TRJ Aitkin, MN.
>

# 717. Re: HP8920A/B Training Tape on VHS UPDATE!

Yahoo group: hp8924
Date: 2012-02-27 15:22:51 UTC
From: Joe Leikhim
Topic: 717  Message: 717

Frank;
Here is an update for all who have been interested in getting a copy of the video. Rich, N9EMS has kindly donated his time to transfer the VHS video onto digital DVD format. Once he is finished, I will be putting the file up on a website also donated by another member of the group, It will be available for all HP8924/8920'ers to download without cost.

Rich says the video I sent was a bit fuzzy on a small computer screen but says it looks pretty good on large screen. It was probably a copy or copy of a copy. He is fine tuning the video for best resolution.

---
Joe Leikhim K4SAT

# 718. Re: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE!

Yahoo group: hp8924
Date: 2012-02-27 19:15:47 UTC
From: gerald bishop
Topic: 717  Message: 718

Please include me in the list !!!  Jerry W8KQ

--- On Mon, 2/27/12, Joe Leikhim <rhyolite@...> wrote:

From: Joe Leikhim <rhyolite@nettally.com>
Subject: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE!
To: hp8924@yahoogroups.com
Date: Monday, February 27, 2012, 10:22 AM

Frank;

Here is an update for all who have been interested in getting a copy of

the video. Rich, N9EMS has kindly donated his time to transfer the VHS

video onto digital DVD format. Once he is finished, I will be putting

the file up on a website also donated by another member of the group,

It will be available for all HP8924/8920'ers to download without cost.

Rich says the video I sent was a bit fuzzy on a small computer screen

but says it looks pretty good on large screen. It was probably a copy or

copy of a copy. He is fine tuning the video for best resolution.

---

Joe Leikhim K4SAT

# 719. Re: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE!

Yahoo group: hp8924
Date: 2012-02-27 23:25:22 UTC
From: Tim Campbell
Topic: 717  Message: 719

Any chance I could get a copy on DVD? I would be willing to pay for the service. My internet connection is slow and limited.

Tim
Kb2mfs
On Feb 27, 2012 1:15 PM, "gerald bishop" <orangetruck38@...> wrote:

>
>
> Please include me in the list !!! Jerry W8KQ
>
> --- On *Mon, 2/27/12, Joe Leikhim <rhyolite@...>* wrote:
>
>
> From: Joe Leikhim <rhyolite@...>
> Subject: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE!
> To: hp8924@yahoogroups.com
> Date: Monday, February 27, 2012, 10:22 AM
>
>
>
> Frank;
> Here is an update for all who have been interested in getting a copy of
> the video. Rich, N9EMS has kindly donated his time to transfer the VHS
> video onto digital DVD format. Once he is finished, I will be putting
> the file up on a website also donated by another member of the group,
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> Rich says the video I sent was a bit fuzzy on a small computer screen
> but says it looks pretty good on large screen. It was probably a copy or
> copy of a copy. He is fine tuning the video for best resolution.
>
> ---
> Joe Leikhim K4SAT
>
>
>
>

# 720. Video question

Yahoo group: hp8924
Date: 2012-02-29 06:57:14 UTC
From: Rix Seacord
Topic: 532  Message: 720

Hi all.
Is there anything that has to be setup in an 8924c to get video at the
rear bnc connector.
I'm only getting a chain of negative going pulses of about 5 us duration
and around 51us apart. A quick look in the operators manual found nothing.
I've been watching some of the threads on adding monitors but they don't
seem to cover my problem.
Thanks much

Ewing (Rix) Seacord
K2AVP/4/499
eseacord@...

845-628-0892 Home
914-262-9186 Cell
914-233-3886 Skype Notebook

On 1/8/2012 5:56 PM, Mike (WM4B) wrote:
>
> I installed the new attenuator from the eBay 60-watt upgrade kit
> today, but
> can't seem to get the calibration data uploaded.
>
> When I go to the TESTS menu, and set the 'Load Test Procedure' to
> 'CARD' and
> the 'Select Procedure Filename', it appears that there is nothing on the
> card. At the top of the screen, it says " Error 85 During Procedure
> Catalog"
>
> I've got message in to the eBay seller, but sure would like to get this
> figured out so I can get the test set running again.
>
> 73,
>
> Mike
> WM4B
>
>

# 721. Re: Video question

Yahoo group: hp8924
Date: 2012-02-29 14:43:29 UTC
From: willcoele@ameritech.net
Topic: 532  Message: 721

I uploaded a photo in the folder "GBS 8200 Modifications" showing the video signal from the rear connector. Because of the short duration, it's possible that your not seeing the short, positive going, video pulses on you oscilloscope. I'm using a brand new Agilent DSOX3024, 200 MHz, 4 channel, digital oscilloscope.

--- In hp8924@yahoogroups.com, Rix Seacord <eseacord@...> wrote:
>
> Hi all.
> Is there anything that has to be setup in an 8924c to get video at the
> rear bnc connector.
> I'm only getting a chain of negative going pulses of about 5 us duration
> and around 51us apart. A quick look in the operators manual found nothing.
> I've been watching some of the threads on adding monitors but they don't
> seem to cover my problem.
> Thanks much
>
> Ewing (Rix) Seacord
> K2AVP/4/499
> eseacord@...
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> > card. At the top of the screen, it says " Error 85 During Procedure
> > Catalog"
> >
> > I've got message in to the eBay seller, but sure would like to get this
> > figured out so I can get the test set running again.
> >
> > 73,
> >
> > Mike
> > WM4B
> >

> >
>

# 722. Re: Microphone for HP8924

Yahoo group: hp8924
Date: 2012-02-29 18:56:31 UTC
From: brad_k9mhz
Topic: 685  Message: 722

Looks nice!

--- In hp8924@yahoogroups.com, "willcoele@..." <willcoele@...> wrote:
>
> I upladed photos of my modified Motorola microphone. I replaced the cord, wired a DIN plug from Mouser(part number 523-T3524-501). It's only 8 bucks! The D104 element came from eBay (12 bucks). The current eBay item number is 220952105730.
>
>
>
> --- In hp8924@yahoogroups.com, "wb6dgn" <wb6dgn@> wrote:
> >
> >
> >
> > Motorola mics. won't work (or any mic. that needs external power) as the 8924 doesn't have power available at the Mic/Accy connector. As others have noted, the GE mic is a good choice as is Regency, etc. There's a guy on ebay selling replacement CB mics for about $12. Those should work fine. OR you can still order one from Agilent (last I checked). They had some at their facility in Germany for, as I recall, about $770 PLUS shipping! Any takers???
> > Tom
> >
>

# 723. Re: [hp8924] Video question

Yahoo group: hp8924
Date: 2012-03-01 04:38:46 UTC
From: keith
Topic: 532  Message: 723

What you are seeing are the line sync pulses. Make sure you have a lot of a menu or data on the screen especially lots of highlight areas and that might make it easier to see the video. Try reducing your scope timebase down to about 5 to 10 mS and trigger off the frame sync.

From: Rix Seacord
Sent: Wednesday, February 29, 2012 7:57 PM
To: hp8924@yahoogroups.com
Subject: [hp8924] Video question

Hi all.
Is there anything that has to be setup in an 8924c to get video at the rear bnc connector. I'm only getting a chain of negative going pulses of about 5 us duration and around 51us apart. A quick look in the operators manual found nothing.
I've been watching some of the threads on adding monitors but they don't seem to cover my problem.
Thanks much

Ewing (Rix) Seacord
K2AVP/4/499
eseacord@...

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When I go to the TESTS menu, and set the 'Load Test Procedure' to 'CARD' and the 'Select Procedure Filename', it appears that there is nothing on the card. At the top of the screen, it says " Error 85 During Procedure Catalog"

I've got message in to the eBay seller, but sure would like to get this figured out so I can get the test set running again.

73,

Mike
WM4B

# 724. Re: Microphone for HP8924

Yahoo group: hp8924
Date: 2012-03-01 05:08:59 UTC
From: willcoele@ameritech.net
Topic: 685  Message: 724

TNKS!

--- In hp8924@yahoogroups.com, "brad_k9mhz" <bradknapp@...> wrote:
>
> Looks nice!
>
>
>
> --- In hp8924@yahoogroups.com, "willcoele@" <willcoele@> wrote:
> >
> > I upladed photos of my modified Motorola microphone. I replaced the cord, wired a DIN plug from Mouser(part number 523-T3524-501). It's only 8 bucks! The D104 element came from eBay (12 bucks). The current eBay item number is 220952105730.
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> > --- In hp8924@yahoogroups.com, "wb6dgn" <wb6dgn@> wrote:
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> > > Tom
> > >
> >
>

# 725. Atten files Cal Data

Yahoo group: hp8924
Date: 2012-03-04 22:13:31 UTC
From: trjohn2049
Topic: 725  Message: 725

***** HP 8924C 60 Watt Cal update problem **********

Iam changing the in-built attenuator to a different power rating in my HP8924 (60 Watt) 14 db.dat file

How do I put the files into my 4mb sram card using Memory card
explorer program found in the download section.
It says to copy all the files and only use only one the db.dat files
and and rename to CALFILE.dat

Ok I understand that, but how do I put more then one file on my
sram card with out over writing the first file I put on the card, whats
the trick?
Also do I just startup the HP with the card in it with the new files
and just follow the intructions on the screen?

Below is all the info I found with the Cal files in the Readme.txt

---
**Copy these files to a PCMCIA card and run calbration proceedure if changing the in-built attenuator to a different power rating.

Include only 1 *.dat file after renaming to CALFILE.dat, ie remove xx dB atten.
---

# 726. Using the HP 83236B as Spectrum analyzer downconverter

Yahoo group: hp8924
Date: 2012-03-05 13:47:19 UTC
From: sv1mne
Topic: 726  Message: 726

Hi, I am interested in using the HP 83236B as Spectrum analyzer downconverter. Is it possible?
Any other idea regarding 1000-2000 MHZ and 2000-3000 MHz frequency conversion for the HP8924c?

Best R.

Yiannis
sv1mne
Athens/Greece

ps Joe Leikhim posted the same question in HP equipment Group but got no answers.

--- In hp_agilent_equipment@yahoogroups.com, Joe Leikhim <rhyolite@...> wrote:
>
> Is anyone familiar with the HP 83236B PCS band (freq conversion) adapter
> for the HP8920B? I have questions as to the utility of this unit to
> extend the frequency of operation of my HP8920B outside the limited PCS
> band ranges this unit was meant for. The block diagram shows a rather
> simple converter without any bandpass filtering. Specifically my questions:
>
> Can it be programmed to convert the 30-1000 MHz operation of the HP8920B
> to 1030-2000 MHz? Can it operate duplex, for example to perform tracking
> generator operation swept 1030-2000 MHz?
>
> Can "script" be written in iBasic to accomplish this? Can it display the
> frequency of operation resulting from the conversion?
>
> Any practical experience is appreciated.
>
> --
> Joe Leikhim
>
> Leikhim and Associates
> Communications Consultants
> Oviedo, Florida
>
> www.Leikhim.com
>
> JLeikhim@...
>
> 407-982-0446
>

# 727. Re: [hp8924] Using the HP 83236B as Spectrum analyzer downconverter

Yahoo group: hp8924
Date: 2012-03-05 18:29:12 UTC
From: Robert Atkinson
Topic: 726  Message: 727

Hi Yannis,
While the 83236B block diagram does not show filters, it almost certainly does have them and they will limit operation to the PCS band. I've used a simple external mixer to extend the range of my 8924C.  I just used the signal generator output on the aux port as the local oscillator. I used a packaged Mini-circuits balanced mixer. An external LO and two mixers will give you a tracking generator too. I used this setup to sweep some GPS filters. Ideally the external LO should be locked to the reference of the 8924C

Hope this helps,
Robert G8RPI.

---
From: sv1mne <sv1mne@...>
To: hp8924@yahoogroups.com
Sent: Monday, 5 March 2012, 13:47
Subject: [hp8924] Using the HP 83236B as Spectrum analyzer downconverter

Hi, I am interested in using the HP 83236B as Spectrum analyzer downconverter. Is it possible?
Any other idea regarding 1000-2000 MHZ and 2000-3000 MHz frequency conversion for the HP8924c?

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> simple converter without any bandpass filtering. Specifically my questions:
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> Can it be programmed to convert the 30-1000 MHz operation of the HP8920B
> to 1030-2000 MHz? Can it operate duplex, for example to perform tracking
> generator operation swept 1030-2000 MHz?
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> frequency of operation resulting from the conversion?
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>

# 728. Re: Using the HP 83236B as Spectrum analyzer downconverter

Yahoo group: hp8924
Date: 2012-03-06 17:27:52 UTC
From: sv1mne
Topic: 726  Message: 728

Hi Robert,

Thank you very much for the hint. I confirm it works. I have used the HP-8924c with a couple of minicircuits SRA-11 mixers with an external LO and a splitter.

I wonder if the 83236B could provide a neater solution. A photo of the inside shows a very simple RF section with no filters (http://www.rfdh.com/ez1202/ezboard.cgi?db=info_ad&action=read&dbf=21703&page=0&depth=1). Unfortunately I do not own one (yet...) to confirm.

Thanks again and I will keep you posted.

73
Yiannis
sv1mne

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Hi Yannis,
> While the 83236B block diagram does not show filters, it almost certainly does have them and they will limit operation to the PCS band. I've used a simple external mixer to extend the range of my 8924C.Â  I just used the signal generator output on the aux port as the local oscillator. I used a packaged Mini-circuits balanced mixer. An external LO and two mixers will give you a tracking generator too. I used this setup to sweep some GPS filters. Ideally the external LO should be locked to the reference of the 8924C
>
> Hope this helps,
> Robert G8RPI.
>
>
>
> _____
> From: sv1mne <sv1mne@...>
> To: hp8924@yahoogroups.com
> Sent: Monday, 5 March 2012, 13:47
> Subject: [hp8924] Using the HP 83236B as Spectrum analyzer downconverter
>
>
> Â
> Hi, I am interested in using the HP 83236B as Spectrum analyzer downconverter. Is it possible?
> Any other idea regarding 1000-2000 MHZ and 2000-3000 MHz frequency conversion for the HP8924c?
>
> Best R.
>

> Yiannis
> sv1mne
> Athens/Greece
>
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>
> --- In hp_agilent_equipment@yahoogroups.com, Joe Leikhim <rhyolite@> wrote:
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> > 407-982-0446
> >
>

# 729. Re: [hp8924] Re: Using the HP 83236B as Spectrum analyzer downconverter

Yahoo group: hp8924
Date: 2012-03-06 21:55:28 UTC
From: Robert Atkinson
Topic: 726  Message: 729

Hi Yannis,
The main RF assembly appears to be underneath the large PCB. You can see 4 or 5 SMAs connecting to it. there is also no mixer visible in the picture, just a couple of attenuators and a coaxial relay. I,ve never seen a 83236B as we don't have PCS in the UK, but have scrapped a couple of the 83220E up/down converters used with the 8922x. This have fairly complex complex RF circuits. They are mostly stripline PCB construction and include filters. They are not suitable for use as a general purpose down converter.

The 70912 module intended to be used with the 70700 digitiser in the 70000 mainframe might be a good choice if you can find a cheap one. it's a 10MHz to 1500MHz converter. A quick look indicates that you could buy a mixer, amplifier, oscillator and filters in surface mount (stripline) packaging from Mini-Circuits for around $50. This would make a basic 1-2GHz down converter. Adding external attenuators and phase locking the oscillator to the 8924C's reference would make a useful unit. I also have an odd Tektronix unit, a 1405 Opt01 Television sideband adaptor, that looks usable too. It has a tunable oscillator and a packaged mixer. I just don't have time to play at the moment.

Robert G8RPI.

---
From: sv1mne <sv1mne@...>
To: hp8924@yahoogroups.com
Sent: Tuesday, 6 March 2012, 17:27
Subject: [hp8924] Re: Using the HP 83236B as Spectrum analyzer downconverter

Hi Robert,

Thank you very much for the hint. I confirm it works. I have used the HP-8924c with a couple of minicircuits SRA-11 mixers with an external LO and a splitter.

I wonder if the 83236B could provide a neater solution. A photo of the inside shows a very simple RF section with no filters (http://www.rfdh.com/ez1202/ezboard.cgi?db=info_ad&action=read&dbf=21703&page=0&depth=1). Unfortunately I do not own one (yet...) to confirm.

Thanks again and I will keep you posted.

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sv1mne

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>
>
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> From: sv1mne <sv1mne@...>
> To: hp8924@yahoogroups.com
> Sent: Monday, 5 March 2012, 13:47
> Subject: [hp8924] Using the HP 83236B as Spectrum analyzer downconverter
>
>
> Â
> Hi, I am interested in using the HP 83236B as Spectrum analyzer downconverter. Is it possible?
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>

# 730. HP8920A/B Training Tape on VHS UPDATE Number 2!

Yahoo group: hp8924
Date: 2012-03-07 22:35:13 UTC
From: rfiemiguy
Topic: 730  Message: 730

Here is another update for all who have been interested in getting a copy of the video.

Rich, N9EMS has kindly donated his time to transfer the VHS
video onto digital DVD format.

The video is now ready to be uploaded to a host site. I know I had an offer from someone on this site to do this but cannot find the post.

If we have a volunteer with a host site, please contact me off line with information on uploading to your host site and I will upload the image file.

Thanks

# 731. Re: [hp8924] HP8920A/B Training Tape on VHS UPDATE Number 2!

Yahoo group: hp8924
Date: 2012-03-07 22:37:41 UTC
From: Tim
Topic: 730  Message: 731

What about youtube?

(from one who has never put anything up on youtube
& has no clue if it could be done)!

Tim

On 3/7/2012 4:35 PM, rfiemiguy wrote:
>
> Here is another update for all who have been interested in getting a
> copy of the video.
>
> Rich, N9EMS has kindly donated his time to transfer the VHS
> video onto digital DVD format.
>
> The video is now ready to be uploaded to a host site. I know I had an
> offer from someone on this site to do this but cannot find the post.
>
> If we have a volunteer with a host site, please contact me off line
> with information on uploading to your host site and I will upload the
> image file.
>
> Thanks
>
>

# 732. Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Yahoo group: hp8924
Date: 2012-03-07 22:46:54 UTC
From: rfiemiguy
Topic: 730  Message: 732

It is about an hour long and probably best viewed on the "big screen"! Plus most folks might want a permanent copy of their own.

--- In hp8924@yahoogroups.com, Tim <tim@...> wrote:
>
> What about youtube?
>
> (from one who has never put anything up on youtube
> & has no clue if it could be done)!
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> Tim
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> On 3/7/2012 4:35 PM, rfiemiguy wrote:
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# 733. Re: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Yahoo group: hp8924
Date: 2012-03-08 00:08:15 UTC
From: Ralph Mowery
Topic: 730  Message: 733

I don't know about Utube either, but I do know you can download from there.  Not sure if it can be downloaded faster than the hour run time or not from there.

Anyway I would like to see it.  Thanks for the time and effort.

--- On Wed, 3/7/12, rfiemiguy <rhyolite@...> wrote:

From: rfiemiguy <rhyolite@...>
Subject: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!
To: hp8924@yahoogroups.com
Date: Wednesday, March 7, 2012, 5:46 PM

It is about an hour long and probably best viewed on the "big screen"! Plus most folks might want a permanent copy of their own.

--- In hp8924@yahoogroups.com, Tim <tim@...> wrote:
>
> What about youtube?
>
> (from one who has never put anything up on youtube
> & has no clue if it could be done)!
>
>

# 734. 11807E opt 11 EDACS test

Yahoo group: hp8924
Date: 2012-03-08 13:08:46 UTC
From: Chris
Topic: 734  Message: 734

Looking for a binary of the 11807E opt11 edacs test card

Chris

# 735. Re: Using the HP 83236B as Spectrum analyzer downconverter

Yahoo group: hp8924
Date: 2012-03-08 17:09:06 UTC
From: sv1mne
Topic: 726  Message: 735

Hi again Robert,

Thank you for sharing your valuable experience. I think we will have the answer in a couple of weeks as I found a 83236B in about 70□. Worst case scenario, I will try to use the main components, keeping the mixers and attenuators and removing filters and control circuits.

I'll keep you posted.

73

Yiannis
sv1mne

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Hi Yannis,
> The main RF assembly appears to be underneath the large PCB. YouÂ  can see 4 or 5 SMAs connecting to it. there is also no mixer visible in the picture, just a couple of attenuators and a coaxial relay. I,ve never seen a 83236B as we don't have PCS in the UK, but have scrapped a couple of the 83220E up/down converters used with the 8922x. This have fairly complex complex RF circuits. They are mostly stripline PCB construction and include filters. They are not suitable for use as a general purpose down converter.
>
> The 70912 module intended to be used with the 70700 digitiser in the 70000 mainframe might be a good choice if you can find a cheap one. it's a 10MHz to 1500MHz converter. A quick look indicates that you could buy a mixer, amplifier, oscillator and filters in surface mount (stripline) packaging from Mini-Circuits for around $50. This would make a basic 1-2GHz down converter. Adding external attenuators and phase locking the oscillator to the 8924C's reference would make a useful unit. I also have an odd Tektronix unit, a 1405 Opt01 Television sideband adaptor, that looks usable too. It has a tunable oscillator and a packaged mixer. I just don't have time to play at the moment.
>
> Robert G8RPI.
>
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> _____
> From: sv1mne <sv1mne@...>
> To: hp8924@yahoogroups.com
> Sent: Tuesday, 6 March 2012, 17:27
> Subject: [hp8924] Re: Using the HP 83236B as Spectrum analyzer downconverter
>
>
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> Hi Robert,
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> Thank you very much for the hint. I confirm it works. I have used the HP-8924c with a couple of minicircuits SRA-11 mixers with an external LO and a splitter.

>
> I wonder if the 83236B could provide a neater solution. A photo of the inside shows a very simple RF section with no filters (http://www.rfdh.com/ez1202/ezboard.cgi?db=info_ad&action=read&dbf=21703&page=0&depth=1). Unfortunately I do not own one (yet...) to confirm.
>
> Thanks again and I will keep you posted.
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> > Hope this helps,
> > Robert G8RPI.
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> > From: sv1mne <sv1mne@>
> > To: hp8924@yahoogroups.com
> > Sent: Monday, 5 March 2012, 13:47
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> > Any other idea regarding 1000-2000 MHZ and 2000-3000 MHz frequency conversion for the HP8924c?
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> > Best R.
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> > sv1mne
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> > --- In hp_agilent_equipment@yahoogroups.com, Joe Leikhim <rhyolite@> wrote:
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> > > for the HP8920B? I have questions as to the utility of this unit to
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> > > band ranges this unit was meant for. The block diagram shows a rather
> > > simple converter without any bandpass filtering. Specifically my questions:
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> > > Can it be programmed to convert the 30-1000 MHz operation of the HP8920B
> > > to 1030-2000 MHz? Can it operate duplex, for example to perform tracking
> > > generator operation swept 1030-2000 MHz?
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> > > Can "script" be written in iBasic to accomplish this? Can it display the
> > > frequency of operation resulting from the conversion?
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> > > Any practical experience is appreciated.
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> > > --
> > > Joe Leikhim
> > >
> > > Leikhim and Associates
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> > >
> > > www.Leikhim.com
> > >
> > > JLeikhim@
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# 736. Re: Using the HP 83236B as Spectrum analyzer downconverter

Yahoo group: hp8924
Date: 2012-03-08 19:40:12 UTC
From: sv1mne
Topic: 726  Message: 736

Hi Robert,

In the meantime, I found a simple solution for my main need to cover the WiFi frequencies. I modified a California Amplifier MMDS downconverter which converts the 2500-2786 Mhz satellite TV band to 222-408 Mhz using a 2278 LO. By modifying the input filter I got a quite decent coverage of the 2,5 GHz spectrum +/- 300 Mhz.

Currently the Downconverters sell for about $14 (for a pack of two!) on eBay.

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# 737. Re: [hp8924] Re: Using the HP 83236B as Spectrum analyzer downconverter

Yahoo group: hp8924
Date: 2012-03-08 20:53:06 UTC
From: Robert Atkinson
Topic: 726  Message: 737

Hi Yannis,
You can't go wrong with a 83236B for $70. The step attenuator alone is worth at least twice that.  It will be interesting to see what is under the main PCB. If you are lucky it will be more indivdually packaged RF modules. It's at least a quality case, connectors  etc. The MMDS down converters look ideal for 2.4 GHz. Lots of info on retuning them on the web. They have the advantage that they are cheap and plentiful so it is worth spending time on and possibly damaging some to get a solution. The 83220Eis just too big to work on, too complex and too application specific.

Have fun,
Robert G8RPI.

---
From: sv1mne <sv1mne@...>
To: hp8924@yahoogroups.com
Sent: Thursday, 8 March 2012, 19:40
Subject: [hp8924] Re: Using the HP 83236B as Spectrum analyzer downconverter

Hi Robert,

In the meantime, I found a simple solution for my main need to cover the WiFi frequencies. I modified a California Amplifier MMDS downconverter which converts the 2500-2786 Mhz satellite TV band to 222-408 Mhz using a 2278 LO. By modifying the input filter I got a quite decent coverage of the 2,5 GHz spectrum +/- 300 Mhz.

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# 738. Re: Using the HP 83236B as Spectrum analyzer downconverter

Yahoo group: hp8924
Date: 2012-03-10 08:14:54 UTC
From: sv1mne
Topic: 726  Message: 738

Hi again Robert,

The HP 83236B arrived yesterday. It works fine as a 1700-2000 MHz transverter, with full control from the HP-8924c and HP-8924e.
As you said, the main RF assembly is underneath the large PCB. It seems quite complex, exactly what you would expect for a laboratory microwave instrument with full control and self-check. The range 1700-2000 MHz is restricted in firmware so it cannot easily go outside those limits. Of course striping out all control circuitry and filters could leave a quite decent down/up converter, but I think its a pity... I'll keep it as is since the MMDS downconverters helped me cover my main need. Now I am working on an upconverter for extending the tracking generator.

Thanks again for your help.

73

Yiannis
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--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
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> > > > Hi Yannis,
> > > > While the 83236B block diagram does not show filters, it almost certainly does have them and they will limit operation to the PCS band. I've used a simple external mixer to extend the range of my 8924C.Ã□â□□Ã□Â  I just used the signal generator output on the aux port as the local oscillator. I used a packaged Mini-circuits balanced mixer. An external LO and two mixers will give you a tracking generator too. I used this setup to sweep some GPS filters. Ideally the external LO should be locked to the reference of the 8924C
> > > >
> > > > Hope this helps,
> > > > Robert G8RPI.
> > > >
> > > >
> > > >
> > > > _____
> > > > From: sv1mne <sv1mne@>
> > > > To: hp8924@yahoogroups.com
> > > > Sent: Monday, 5 March 2012, 13:47
> > > > Subject: [hp8924] Using the HP 83236B as Spectrum analyzer downconverter
> > > >
> > > >
> > > > Ã□â□□Ã□Â
> > > > Hi, I am interested in using the HP 83236B as Spectrum analyzer downconverter. Is it possible?
> > > > Any other idea regarding 1000-2000 MHZ and 2000-3000 MHz frequency conversion for the HP8924c?
> > > >
> > > > Best R.
> > > >
> > > > Yiannis
> > > > sv1mne
> > > > Athens/Greece
> > > >
> > > > ps Joe Leikhim posted the same question in HP equipment Group but got no answers.
> > > >
> > > > --- In hp_agilent_equipment@yahoogroups.com, Joe Leikhim <rhyolite@> wrote:

> > > > >
> > > > > Is anyone familiar with the HP 83236B PCS band (freq conversion) adapter
> > > > > for the HP8920B? I have questions as to the utility of this unit to
> > > > > extend the frequency of operation of my HP8920B outside the limited PCS
> > > > > band ranges this unit was meant for. The block diagram shows a rather
> > > > > simple converter without any bandpass filtering. Specifically my questions:
> > > > >
> > > > > Can it be programmed to convert the 30-1000 MHz operation of the HP8920B
> > > > > to 1030-2000 MHz? Can it operate duplex, for example to perform tracking
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> > > > >
> > > > > Can "script" be written in iBasic to accomplish this? Can it display the
> > > > > frequency of operation resulting from the conversion?
> > > > >
> > > > > Any practical experience is appreciated.
> > > > >
> > > > > --
> > > > > Joe Leikhim
> > > > >
> > > > > Leikhim and Associates
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> > > > > www.Leikhim.com
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> > > > > JLeikhim@
> > > > >
> > > > > 407-982-0446
> > > > >
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> > >
> >
>

# 739. Re: Using the HP 83236B as Spectrum analyzer downconverter

Yahoo group: hp8924
Date: 2012-03-10 20:31:13 UTC
From: rfiemiguy
Topic: 726  Message: 739

Yiannis;
The prices of these have become so low, I am ready to bite. Can you tell me what control software I will need to run it and where to find it? I have an 8920B if that makes any difference.

Joe

--- In hp8924@yahoogroups.com, "sv1mne" <sv1mne@...> wrote:
>
> Hi again Robert,
>
> The HP 83236B arrived yesterday. It works fine as a 1700-2000 MHz transverter, with full control from the HP-8924c and HP-8924e.
> As you said, the main RF assembly is underneath the large PCB. It seems quite complex, exactly what you would expect for a laboratory microwave instrument with full control and self-check. The range 1700-2000 MHz is restricted in firmware so it cannot easily go outside those limits. Of course striping out all control circuitry and filters could leave a quite decent down/up converter, but I think its a pity... I'll keep it as is since the MMDS downconverters helped me cover my main need. Now I am working on an upconverter for extending the tracking generator.
>
> Thanks again for your help.
>
> 73
>
> Yiannis
> sv1mne
> --- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@> wrote:
> >
snip
> > > > > > Joe Leikhim
> > > > > >
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> >
>

# 740. Re: Using the HP 83236B as Spectrum analyzer downconverter

Yahoo group: hp8924
Date: 2012-03-10 21:59:16 UTC
From: sv1mne
Topic: 726  Message: 740

Hi Joe,

First, download the HP-83236b Operating manual, which has details for installation an operation with the various HP-89xx test sets.
Fortunately the HP-8920b with firmware B05.00 and above, can control it directly through the serial port as with the HP-8924c and HP-8924e, so you do not need to work remotely through the GPIB.

I am not sure if you also need the 83206 cellular adapter which is mentioned in the relevant section of the manual.

Best R.

Yiannis

--- In hp8924@yahoogroups.com, "rfiemiguy" <rhyolite@...> wrote:
>
> Yiannis;
> The prices of these have become so low, I am ready to bite. Can you tell me what control software I will need to run it and where to find it? I have an 8920B if that makes any difference.
>
> Joe
>
> --- In hp8924@yahoogroups.com, "sv1mne" <sv1mne@> wrote:
> >
> > Hi again Robert,
> >
> > The HP 83236B arrived yesterday. It works fine as a 1700-2000 MHz transverter, with full control from the HP-8924c and HP-8924e.
> > As you said, the main RF assembly is underneath the large PCB. It seems quite complex, exactly what you would expect for a laboratory microwave instrument with full control and self-check. The range 1700-2000 MHz is restricted in firmware so it cannot easily go outside those limits. Of course striping out all control circuitry and filters could leave a quite decent down/up converter, but I think its a pity... I'll keep it as is since the MMDS downconverters helped me cover my main need. Now I am working on an upconverter for extending the tracking generator.
> >
> > Thanks again for your help.
> >
> > 73
> >
> > Yiannis
> > sv1mne
> > --- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@> wrote:
> > >

> snip
> > > > > > > Joe Leikhim
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> > > > > > > Leikhim and Associates
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>

# 741. Re: [hp8924] Re: Using the HP 83236B as Spectrum analyzer downconverter

Yahoo group: hp8924
Date: 2012-03-10 22:26:14 UTC
From: Robert Atkinson
Topic: 726  Message: 741

Hi Yannis,
Glad it all works OK. I'd buy one myself but the cost shipping to the UK just kills the deal.

Regards,
Robert G8RPI.

---
From: sv1mne <sv1mne@...>
To: hp8924@yahoogroups.com
Sent: Saturday, 10 March 2012, 8:14
Subject: [hp8924] Re: Using the HP 83236B as Spectrum analyzer downconverter

Hi again Robert,

The HP 83236B arrived yesterday. It works fine as a 1700-2000 MHz transverter, with full control from the HP-8924c and HP-8924e.
As you said, the main RF assembly is underneath the large PCB. It seems quite complex, exactly what you would expect for a laboratory microwave instrument with full control and self-check. The range 1700-2000 MHz is restricted in firmware so it cannot easily go outside those limits. Of course striping out all control circuitry and filters could leave a quite decent down/up converter, but I think its a pity... I'll keep it as is since the MMDS downconverters helped me cover my main need. Now I am working on an upconverter for extending the tracking generator.

Thanks again for your help.

73

Yiannis
sv1mne
--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Hi Yannis,
> You can't go wrong with a 83236B for $70. The step attenuator alone is worth at least twice that.Â  It will be interesting to see what is under the main PCB. If you are lucky it will be more indivdually packaged RF modules. It's at least a quality case, connectorsÂ etc. The MMDS down converters look ideal for 2.4 GHz. Lots of info on retuning them on the web. They have the advantage that they are cheap and plentiful so it is worth spending time on and possibly damaging some to get a solution. The 83220Eis just too big to work on, too complex and too application specific.
>
> Have fun,
> Robert G8RPI.
>

>
>
> _____
> From: sv1mne <sv1mne@...>
> To: hp8924@yahoogroups.com
> Sent: Thursday, 8 March 2012, 19:40
> Subject: [hp8924] Re: Using the HP 83236B as Spectrum analyzer downconverter
>
>
> Â
> Hi Robert,
>
> In the meantime, I found a simple solution for my main need to cover the WiFi frequencies. I modified a California Amplifier MMDS downconverter which converts the 2500-2786 Mhz satellite TV band to 222-408 Mhz using a 2278 LO. By modifying the input filter I got a quite decent coverage of the 2,5 GHz spectrum +/- 300 Mhz.
>
> Currently the Downconverters sell for about $14 (for a pack of two!) on eBay.
>
> 73
> Yiannis
>
> --- In hp8924@yahoogroups.com, "sv1mne" <sv1mne@> wrote:
> >
> > Hi again Robert,
> >
> > Thank you for sharing your valuable experience. I think we will have the answer in a couple of weeks as I found a 83236B in about 70â,¬. Worst case scenario, I will try to use the main components, keeping the mixers and attenuators and removing filters and control circuits.
> >
> > I'll keep you posted.
> >
> > 73
> >
> > Yiannis
> > sv1mne
> >
> > --- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@> wrote:
> > >
> > > Hi Yannis,
> > > The main RF assembly appears to be underneath the large PCB. YouÃ‚Â  can see 4 or 5 SMAs connecting to it. there is also no mixer visible in the picture, just a couple of attenuators and a coaxial relay. I,ve never seen a 83236B as we don't have PCS in the UK, but have scrapped a couple of the 83220E up/down converters used with the 8922x. This have fairly complex complex RF circuits. They are mostly stripline PCB construction and include filters. They are not suitable for use as a general purpose down converter.
> > >
> > > The 70912 module intended to be used with the 70700 digitiser in the 70000 mainframe might be a good choice if you can find a cheap one. it's a 10MHz to 1500MHz converter. A

quick look indicates that you could buy a mixer, amplifier, oscillator and filters in surface mount (stripline) packaging from Mini-Circuits for around $50. This would make a basic 1-2GHz down converter. Adding external attenuators and phase locking the oscillator to the 8924C's reference would make a useful unit. I also have an odd Tektronix unit, a 1405 Opt01 Television sideband adaptor, that looks usable too. It has a tunable oscillator and a packaged mixer. I just don't have time to play at the moment.
> > >
> > > Robert G8RPI.
> > >
> > >
> > >
> > > _____
> > > From: sv1mne <sv1mne@>
> > > To: hp8924@yahoogroups.com
> > > Sent: Tuesday, 6 March 2012, 17:27
> > > Subject: [hp8924] Re: Using the HP 83236B as Spectrum analyzer downconverter
> > >
> > >
> > > Ã‚Â
> > > Hi Robert,
> > >
> > > Thank you very much for the hint. I confirm it works. I have used the HP-8924c with a couple of minicircuits SRA-11 mixers with an external LO and a splitter.
> > >
> > > I wonder if the 83236B could provide a neater solution. A photo of the inside shows a very simple RF section with no filters (http://www.rfdh.com/ez1202/ezboard.cgi?db=info_ad&action=read&dbf=21703&page=0&depth=1). Unfortunately I do not own one (yet...) to confirm.
> > >
> > > Thanks again and I will keep you posted.
> > >
> > > 73
> > > Yiannis
> > > sv1mne
> > >
> > > --- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@> wrote:
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> > > > Hi Yannis,
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> > > >
> > > > Hope this helps,
> > > > Robert G8RPI.
> > > >
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> > > > From: sv1mne <sv1mne@>
> > > > To: hp8924@yahoogroups.com
> > > > Sent: Monday, 5 March 2012, 13:47
> > > > Subject: [hp8924] Using the HP 83236B as Spectrum analyzer downconverter
> > > >
> > > >
> > > > Ãƒâ€šÃ‚Â
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> > > > Best R.
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> > > > ps Joe Leikhim posted the same question in HP equipment Group but got no answers.
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> > > > --- In hp_agilent_equipment@yahoogroups.com, Joe Leikhim <rhyolite@> wrote:
> > > > >
> > > > > Is anyone familiar with the HP 83236B PCS band (freq conversion) adapter
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> > > > > extend the frequency of operation of my HP8920B outside the limited PCS
> > > > > band ranges this unit was meant for. The block diagram shows a rather
> > > > > simple converter without any bandpass filtering. Specifically my questions:
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> > > > > Can it be programmed to convert the 30-1000 MHz operation of the HP8920B
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> > > > > generator operation swept 1030-2000 MHz?
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> > > > > Can "script" be written in iBasic to accomplish this? Can it display the
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> > > > > Any practical experience is appreciated.
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# 742. RE: [hp8924] Re: Using the HP 83236B as Spectrum analyzer downconverter

Yahoo group: hp8924
Date: 2012-03-10 23:02:52 UTC
From: EC Welch
Topic: 726  Message: 742

Yiannis,

Sorry to break in but I don't know how to reach the correct Yahoo group. I recently bought a like new HP8935/AgilentE6380A since the price was in my comfort range. It has many of the features I wanted such as HF band coverage, spectrum analyzer, tracking gen., etc. What am I missing compared to thehp8924?

EC Welch

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of sv1mne
Sent: Saturday, March 10, 2012 1:59 PM
To: hp8924@yahoogroups.com
Subject: [hp8924] Re: Using the HP 83236B as Spectrum analyzer downconverter

Hi Joe,

First, download the HP-83236b Operating manual, which has details for installation an operation with the various HP-89xx test sets. Fortunately the HP-8920b with firmware B05.00 and above, can control it directly through the serial port as with the HP-8924c and HP-8924e, so you do not need to work remotely through the GPIB.

I am not sure if you also need the 83206 cellular adapter which is mentioned in the relevant section of the manual.

Best R.

Yiannis

--- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com> , "rfiemiguy" <rhyolite@...> wrote:
>
> Yiannis;
> The prices of these have become so low, I am ready to bite. Can you tell me what control software I will need to run it and where to find it? I have an 8920B if that makes any difference.
>
> Joe
>
> --- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com> , "sv1mne" <sv1mne@> wrote:
> >
> > Hi again Robert,
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> > The HP 83236B arrived yesterday. It works fine as a 1700-2000 MHz transverter, with full control from the HP-8924c and HP-8924e.
> > As you said, the main RF assembly is underneath the large PCB. It seems quite complex, exactly what you would expect for a laboratory microwave instrument with full control and self-check. The range 1700-2000 MHz is restricted in firmware so it cannot easily go outside those limits. Of course striping out all control circuitry and filters could leave a quite decent down/up converter, but I think its a pity... I'll keep it as is since the MMDS downconverters helped me cover my main need. Now I am working on an upconverter for extending the tracking generator.
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> > Thanks again for your help.
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> > Yiannis
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> > --- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com> , Robert Atkinson <robert8rpi@> wrote:
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> > > > > > > > Joe Leikhim
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>

# 743. Re: [hp8924] Re: Using the HP 83236B as Spectrum analyzer downconverter

Yahoo group: hp8924
Date: 2012-03-10 23:10:43 UTC
From: Tim
Topic: 726  Message: 743

The 8924 isn't portable at all... tags on the side say 'two person lift'! :-)

Also, the 8924 isn't really spec'd to do HF coverage.

Tim

On 3/10/2012 5:02 PM, EC Welch wrote:

Yiannis,

Sorry to break in but I don’t know how to reach the correct Yahoo group. I recently bought a like new HP8935/AgilentE6380A since the price was in my comfort range. It has many of the features I wanted such as HF band coverage, spectrum analyzer, tracking gen., etc. What am I missing compared to thehp8924?

EC Welch

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of sv1mne
Sent: Saturday, March 10, 2012 1:59 PM
To: hp8924@yahoogroups.com
Subject: [hp8924] Re: Using the HP 83236B as Spectrum analyzer downconverter

Hi Joe,

First, download the HP-83236b Operating manual, which has details for installation an operation with the various HP-89xx test sets.
Fortunately the HP-8920b with firmware B05.00 and above, can control it directly through the serial port as with the HP-8924c and HP-8924e, so you do not need to work remotely through the GPIB.

I am not sure if you also need the 83206 cellular adapter which is mentioned in the relevant section of the manual.

Best R.

Yiannis

--- In hp8924@yahoogroups.com, "rfiemiguy" <rhyolite@...> wrote:
>
> Yiannis;
> The prices of these have become so low, I am ready to bite. Can you tell me what control software I will need to run it and where to find it? I have an 8920B if that makes any difference.
>
> Joe
>
> --- In hp8924@yahoogroups.com, "sv1mne" wrote:

> >
> > Hi again Robert,
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> > The HP 83236B arrived yesterday. It works fine as a 1700-2000 MHz transverter, with full control from the HP-8924c and HP-8924e.
> > As you said, the main RF assembly is underneath the large PCB. It seems quite complex, exactly what you would expect for a laboratory microwave instrument with full control and self-check. The range 1700-2000 MHz is restricted in firmware so it cannot easily go outside those limits. Of course striping out all control circuitry and filters could leave a quite decent down/up converter, but I think its a pity... I'll keep it as is since the MMDS downconverters helped me cover my main need. Now I am working on an upconverter for extending the tracking generator.
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> > Thanks again for your help.
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> > 73
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> > --- In hp8924@yahoogroups.com, Robert Atkinson wrote:
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> > > > > > > Joe Leikhim
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> > > > > > > Leikhim and Associates
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> > > > > > > www.Leikhim.com (http://www.Leikhim.com)
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>

# 744. RE: [hp8924] Re: Using the HP 83236B as Spectrum analyzer downconverter

Yahoo group: hp8924
Date: 2012-03-10 23:14:42 UTC
From: Ralph Mowery
Topic: 726  Message: 744

You can look here and find many of the differances.

http://www.amtronix.com/e6380a.htm

While there, you may want to look around at other HP monitors they sell.

--- On Sat, 3/10/12, EC Welch <ecw2f@...> wrote:

From: EC Welch <ecw2f@...>
Subject: RE: [hp8924] Re: Using the HP 83236B as Spectrum analyzer downconverter
To: hp8924@yahoogroups.com
Date: Saturday, March 10, 2012, 6:02 PM

Yiannis,
Sorry to break in  but I don’t know how to reach the correct Yahoo group. I recently bought a like new HP8935/AgilentE6380A since the price was in my comfort range. It has many of the features I wanted such as HF band coverage, spectrum analyzer, tracking gen., etc. What am I missing compared to thehp8924?
EC Welch

# 745. Re: [hp8924] Re: Using the HP 83236B as Spectrum analyzer downconverter

Yahoo group: hp8924
Date: 2012-03-10 23:29:23 UTC
From: Ralph Mowery
Topic: 726  Message: 745

Sure it is portable it only weighs 60 pounds instead of 40 pounds like the 8920 and 50 pounds like the 6380...

Most of the 8924C's will go to about 10 mhz and still be close to spec.  All that changes is the power input and output power is somewhat lower below 10 mhz on most of them.  They will still cover the same frequency ranges.
They are about 3 db off at 3 mhz, but drop off fast after that.

--- On Sat, 3/10/12, Tim <tim@utopiaedesign.com> wrote:

From: Tim <tim@...>
Subject: Re: [hp8924] Re: Using the HP 83236B as Spectrum analyzer downconverter
To: hp8924@yahoogroups.com
Date: Saturday, March 10, 2012, 6:10 PM

The 8924 isn't portable at all... tags on the side say 'two person lift'! :-)

Also, the 8924 isn't really spec'd to do HF coverage.

Tim

On 3/10/2012 5:02 PM, EC Welch wrote:

# 746. Re: Using the HP 83236B as Spectrum analyzer downconverter

Yahoo group: hp8924
Date: 2012-03-11 00:12:45 UTC
From: rfiemiguy
Topic: 726  Message: 746

Thanks;

My unit has 6.x firmware so should work.
When you operate the test set does it display the actual frequency? Are their bands or do you get contiguous 1710-1990 MHz?

--- In hp8924@yahoogroups.com, "sv1mne" <sv1mne@...> wrote:
>
> Hi Joe,
>
> First, download the HP-83236b Operating manual, which has details for installation an operation with the various HP-89xx test sets.
> Fortunately the HP-8920b with firmware B05.00 and above, can control it directly through the serial port as with the HP-8924c and HP-8924e, so you do not need to work remotely through the GPIB.
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> > The prices of these have become so low, I am ready to bite. Can you tell me what control software I will need to run it and where to find it? I have an 8920B if that makes any difference.
> >
> > Joe
> >
> > --- In hp8924@yahoogroups.com, "sv1mne" <sv1mne@> wrote:
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> > > Hi again Robert,
> > >
> > > The HP 83236B arrived yesterday. It works fine as a 1700-2000 MHz transverter, with full control from the HP-8924c and HP-8924e.
> > > As you said, the main RF assembly is underneath the large PCB. It seems quite complex, exactly what you would expect for a laboratory microwave instrument with full control and self-check. The range 1700-2000 MHz is restricted in firmware so it cannot easily go outside those limits. Of course striping out all control circuitry and filters could leave a quite decent down/up converter, but I think its a pity... I'll keep it as is since the MMDS downconverters helped me cover my main need. Now I am working on an upconverter for extending the tracking generator.

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> > > Thanks again for your help.
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> > > Yiannis
> > > sv1mne
> > > --- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@> wrote:
> > > >
> > snip
> > > > > > > > > Joe Leikhim
> > > > > > > > >
> > > > > > > > > Leikhim and Associates
> > > > > > > > > Communications Consultants
> > > > > > > > > Oviedo, Florida
> > > > > > > > >
> > > > > > > > > www.Leikhim.com
> > > > > > > > >
> > > > > > > > > JLeikhim@
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# 747. 8294c Prospective Purchase Advice

Yahoo group: hp8924
Date: 2012-03-11 12:19:31 UTC
From: Dawn
Topic: 747  Message: 747

I'm looking to purchase a 8294c, but besides the high power and spec/tracking generator option, I'm hoping to find what an optimum combination and model revision would be. I don't think that I'm going to find a mechanical attenuator version among the lot that are listed on e-bay. The prices look good under $1K USD, but I'm also wondering if it's worth the extra $600-$700 USD to buy one tested and semi-refurbished from a reliable vendor such as Amtronics. I'm sure that many of you have taken both routes and have retrospective opinions based on experience. Ebay vendors seem to have some very clean looking units with 60/100W inputs and the spectrum analyzer options that claim to pass on board diagnostics and some include the RF tools card.

Any advice for someone looking to purchase one? Would most of these pulled from service have significant screen burn/monitor deterioration that would warrant a new crt or replacement monitor module?

dwt

# 748. Re: [hp8924] 8294c Prospective Purchase Advice

Yahoo group: hp8924
Date: 2012-03-11 13:22:37 UTC
From: Robert Atkinson
Topic: 747  Message: 748

Hi,
Have a read through the archives. The spectrum analyser and TG are standard on th8924C so that's not an issue. The electronic attenuator is more reliable and better unless you need accuracy below 10MHz. Ebay or Amtronix? Thats a personal choice based on your comfort level and ability to tackle a repair vice budget. Personally I'm undecided on the high power option. I certainly would not pay extra for it. Screen burn varies from unit to unit, you need to check with the vendor. If you get a bargain unit with screen burn there is the option of an external VGA monitor with a converter. I bought mine on ebay as part of a job lot of test gear and have had no problems at all.

Robert G8RPI.

---
From: Dawn <dawntredereding@...>
To: hp8924@yahoogroups.com
Sent: Sunday, 11 March 2012, 12:19
Subject: [hp8924] 8294c Prospective Purchase Advice

I'm looking to purchase a 8294c, but besides the high power and spec/tracking generator option, I'm hoping to find what an optimum combination and model revision would be. I don't think that I'm going to find a mechanical attenuator version among the lot that are listed on e-bay. The prices look good under $1K USD, but I'm also wondering if it's worth the extra $600-$700 USD to buy one tested and semi-refurbished from a reliable vendor such as Amtronics. I'm sure that many of you have taken both routes and have retrospective opinions based on experience. Ebay vendors seem to have some very clean looking units with 60/100W inputs and the spectrum analyzer options that claim to pass on board diagnostics and some include the RF tools card.

Any advice for someone looking to purchase one? Would most of these pulled from service have significant screen burn/monitor deterioration that would warrant a new crt or replacement monitor module?

dwt

# 749. Re: [hp8924] 8294c Prospective Purchase Advice

Yahoo group: hp8924
Date: 2012-03-11 14:00:09 UTC
From: Tim Campbell
Topic: 747  Message: 749

I can highly recommend Rick at Amtronix. Looking at his website he offers the 8924C (100 watt) with a new CRT and calibrated. I purchased these options on mine and have had no issues. When I purchased mine the prices on Ebay were not as low as they seem to be now. I felt much better doing business with someone that was willing to spend time on the phone discussing my needs and the possible alternatives in equipment. It is possible Rick is selling his equipment on ebay also.... Not sure about that, but could be something to ask him. Great guy to do business with.

Tim KB2MFS

On Sun, Mar 11, 2012 at 7:19 AM, Dawn <dawntredereding@...> wrote:

> I'm looking to purchase a 8294c, but besides the high power and
> spec/tracking generator option, I'm hoping to find what an optimum
> combination and model revision would be. I don't think that I'm going to
> find a mechanical attenuator version among the lot that are listed on
> e-bay. The prices look good under $1K USD, but I'm also wondering if it's
> worth the extra $600-$700 USD to buy one tested and semi-refurbished from a
> reliable vendor such as Amtronics. I'm sure that many of you have taken
> both routes and have retrospective opinions based on experience. Ebay
> vendors seem to have some very clean looking units with 60/100W inputs and
> the spectrum analyzer options that claim to pass on board diagnostics and
> some include the RF tools card.
>
> Any advice for someone looking to purchase one? Would most of these pulled
> from service have significant screen burn/monitor deterioration that would
> warrant a new crt or replacement monitor module?
>
>
> dwt
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> ------------------------------------
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> Yahoo! Groups Links
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# 750. Re: Using the HP 83236B as Spectrum analyzer downconverter

Yahoo group: hp8924
Date: 2012-03-11 14:11:01 UTC
From: sv1mne
Topic: 726  Message: 750

Hi EC Welch,

You bought the ultimate test set! It has all the features of HP-8924c, plus 1700-2000 MHz coverage and it is more compact and trasportable. The main differences is that the HP-8935 has a 30 KHz IF filter instead of 15 KHz and does not measure frequency automatically. More info in http://www.amtronix.com/e6380a.htm.

Best R.

Yiannis

--- In hp8924@yahoogroups.com, "EC Welch" <ecw2f@...> wrote:
>
> Yiannis,
>
> Sorry to break in but I don't know how to reach the correct Yahoo
> group. I recently bought a like new HP8935/AgilentE6380A since the price was
> in my comfort range. It has many of the features I wanted such as HF band
> coverage, spectrum analyzer, tracking gen., etc. What am I missing compared
> to thehp8924?
>
> EC Welch
>
>
>
> From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of
> sv1mne
> Sent: Saturday, March 10, 2012 1:59 PM
> To: hp8924@yahoogroups.com
> Subject: [hp8924] Re: Using the HP 83236B as Spectrum analyzer downconverter
>
>
>
>
>
> Hi Joe,
>
> First, download the HP-83236b Operating manual, which has details for
> installation an operation with the various HP-89xx test sets.
> Fortunately the HP-8920b with firmware B05.00 and above, can control it
> directly through the serial port as with the HP-8924c and HP-8924e, so you
> do not need to work remotely through the GPIB.
>
> I am not sure if you also need the 83206 cellular adapter which is mentioned
> in the relevant section of the manual.
>

> Best R.
>
> Yiannis
>
> --- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com> ,
> "rfiemiguy" <rhyolite@> wrote:
> >
> > Yiannis;
> > The prices of these have become so low, I am ready to bite. Can you tell
> me what control software I will need to run it and where to find it? I have
> an 8920B if that makes any difference.
> >
> > Joe
> >
> > --- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com> , "sv1mne"
> <sv1mne@> wrote:
> > >
> > > Hi again Robert,
> > >
> > > The HP 83236B arrived yesterday. It works fine as a 1700-2000 MHz
> transverter, with full control from the HP-8924c and HP-8924e.
> > > As you said, the main RF assembly is underneath the large PCB. It seems
> quite complex, exactly what you would expect for a laboratory microwave
> instrument with full control and self-check. The range 1700-2000 MHz is
> restricted in firmware so it cannot easily go outside those limits. Of
> course striping out all control circuitry and filters could leave a quite
> decent down/up converter, but I think its a pity... I'll keep it as is since
> the MMDS downconverters helped me cover my main need. Now I am working on an
> upconverter for extending the tracking generator.
> > >
> > > Thanks again for your help.
> > >
> > > 73
> > >
> > > Yiannis
> > > sv1mne
> > > --- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com> , Robert
> Atkinson <robert8rpi@> wrote:
> > > >
> > snip
> > > > > > > > > > Joe Leikhim
> > > > > > > > > >
> > > > > > > > > > Leikhim and Associates
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> > > > > > > > > > JLeikhim@
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# 751. Re: Using the HP 83236B as Spectrum analyzer downconverter

Yahoo group: hp8924
Date: 2012-03-11 14:35:18 UTC
From: sv1mne
Topic: 726  Message: 751

Joe, in the HP-8924c you get continuous covetage from 1700 to 1999 MHz and it displays the actual frequency.

Yannis

--- In hp8924@yahoogroups.com, "rfiemiguy" <rhyolite@...> wrote:
>
> Thanks;
>
> My unit has 6.x firmware so should work.
> When you operate the test set does it display the actual frequency? Are their bands or do you get contiguous 1710-1990 MHz?
>
> --- In hp8924@yahoogroups.com, "sv1mne" <sv1mne@> wrote:
> >
> > Hi Joe,
> >
> > First, download the HP-83236b Operating manual, which has details for installation an operation with the various HP-89xx test sets.
> > Fortunately the HP-8920b with firmware B05.00 and above, can control it directly through the serial port as with the HP-8924c and HP-8924e, so you do not need to work remotely through the GPIB.
> >
> > I am not sure if you also need the 83206 cellular adapter which is mentioned in the relevant section of the manual.
> >
> > Best R.
> >
> > Yiannis
> >
> > --- In hp8924@yahoogroups.com, "rfiemiguy" <rhyolite@> wrote:
> > >
> > > Yiannis;
> > > The prices of these have become so low, I am ready to bite. Can you tell me what control software I will need to run it and where to find it? I have an 8920B if that makes any difference.
> > >
> > > Joe
> > >
> > > --- In hp8924@yahoogroups.com, "sv1mne" <sv1mne@> wrote:
> > > >
> > > > Hi again Robert,
> > > >
> > > > The HP 83236B arrived yesterday. It works fine as a 1700-2000 MHz transverter, with full control from the HP-8924c and HP-8924e.

> > > > As you said, the main RF assembly is underneath the large PCB. It seems quite complex, exactly what you would expect for a laboratory microwave instrument with full control and self-check. The range 1700-2000 MHz is restricted in firmware so it cannot easily go outside those limits. Of course striping out all control circuitry and filters could leave a quite decent down/up converter, but I think its a pity... I'll keep it as is since the MMDS downconverters helped me cover my main need. Now I am working on an upconverter for extending the tracking generator.
> > > >
> > > > Thanks again for your help.
> > > >
> > > > 73
> > > >
> > > > Yiannis
> > > > sv1mne
> > > > --- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@> wrote:
> > > > >
> > > snip
> > > > > > > > > Joe Leikhim
> > > > > > > > > >
> > > > > > > > > > Leikhim and Associates
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# 752. Re: Using the HP 83236B as Spectrum analyzer downconverter

Yahoo group: hp8924
Date: 2012-03-11 14:43:04 UTC
From: sv1mne
Topic: 726  Message: 752

Robert, I bought mine from Israel. Sometomes they have us equipment with much lower shipping costs. But have in mind that you cannot use the tracking gen with the 83236 and after many hours of experimenting, I feel more comfortable with the MMDS Downconverter and your suggestion for using two mixers and locking the pll to the 8924 ref seems even better.

Thanks

Yiannis

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Hi Yannis,
> Glad it all works OK. I'd buy one myself but the cost shipping to the UK just kills the deal.
>
> Regards,
> Robert G8RPI.
>
>
>
> _____
> From: sv1mne <sv1mne@...>
> To: hp8924@yahoogroups.com
> Sent: Saturday, 10 March 2012, 8:14
> Subject: [hp8924] Re: Using the HP 83236B as Spectrum analyzer downconverter
>
>
> Â
> Hi again Robert,
>
> The HP 83236B arrived yesterday. It works fine as a 1700-2000 MHz transverter, with full control from the HP-8924c and HP-8924e.
> As you said, the main RF assembly is underneath the large PCB. It seems quite complex, exactly what you would expect for a laboratory microwave instrument with full control and self-check. The range 1700-2000 MHz is restricted in firmware so it cannot easily go outside those limits. Of course striping out all control circuitry and filters could leave a quite decent down/up converter, but I think its a pity... I'll keep it as is since the MMDS downconverters helped me cover my main need. Now I am working on an upconverter for extending the tracking generator.
>
> Thanks again for your help.
>
> 73
>
> Yiannis
> sv1mne
> --- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@> wrote:
> >

> > Hi Yannis,
> > You can't go wrong with a 83236B for $70. The step attenuator alone is worth at least twice that.ÃÂ  It will be interesting to see what is under the main PCB. If you are lucky it will be more indivdually packaged RF modules. It's at least a quality case, connectorsÃÂ  etc. The MMDS down converters look ideal for 2.4 GHz. Lots of info on retuning them on the web. They have the advantage that they are cheap and plentiful so it is worth spending time on and possibly damaging some to get a solution. The 83220Eis just too big to work on, too complex and too application specific.
> >
> > Have fun,
> > Robert G8RPI.
> >
> >
> >
> > _____
> > From: sv1mne <sv1mne@>
> > To: hp8924@yahoogroups.com
> > Sent: Thursday, 8 March 2012, 19:40
> > Subject: [hp8924] Re: Using the HP 83236B as Spectrum analyzer downconverter
> >
> >
> > ÃÂ
> > Hi Robert,
> >
> > In the meantime, I found a simple solution for my main need to cover the WiFi frequencies. I modified a California Amplifier MMDS downconverter which converts the 2500-2786 Mhz satellite TV band to 222-408 Mhz using a 2278 LO. By modifying the input filter I got a quite decent coverage of the 2,5 GHz spectrum +/- 300 Mhz.
> >
> > Currently the Downconverters sell for about $14 (for a pack of two!) on eBay.
> >
> > 73
> > Yiannis
> >
> > --- In hp8924@yahoogroups.com, "sv1mne" <sv1mne@> wrote:
> > >
> > > Hi again Robert,
> > >
> > > Thank you for sharing your valuable experience. I think we will have the answer in a couple of weeks as I found a 83236B in about 70Ã¢â€ÂÂ¬. Worst case scenario, I will try to use the main components, keeping the mixers and attenuators and removing filters and control circuits.
> > >
> > > I'll keep you posted.
> > >
> > > 73
> > >
> > > Yiannis
> > > sv1mne
> > >
> > > --- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@> wrote:
> > > >

> > > > Hi Yannis,
> > > > The main RF assembly appears to be underneath the large PCB. YouÃ□â□□Ã□Â  can see 4 or 5 SMAs connecting to it. there is also no mixer visible in the picture, just a couple of attenuators and a coaxial relay. I,ve never seen a 83236B as we don't have PCS in the UK, but have scrapped a couple of the 83220E up/down converters used with the 8922x. This have fairly complex complex RF circuits. They are mostly stripline PCB construction and include filters. They are not suitable for use as a general purpose down converter.
> > > >
> > > > The 70912 module intended to be used with the 70700 digitiser in the 70000 mainframe might be a good choice if you can find a cheap one. it's a 10MHz to 1500MHz converter. A quick look indicates that you could buy a mixer, amplifier, oscillator and filters in surface mount (stripline) packaging from Mini-Circuits for around $50. This would make a basic 1-2GHz down converter. Adding external attenuators and phase locking the oscillator to the 8924C's reference would make a useful unit. I also have an odd Tektronix unit, a 1405 Opt01 Television sideband adaptor, that looks usable too. It has a tunable oscillator and a packaged mixer. I just don't have time to play at the moment.
> > > >
> > > > Robert G8RPI.
> > > >
> > > >
> > > >
> > > > _____
> > > > From: sv1mne <sv1mne@>
> > > > To: hp8924@yahoogroups.com
> > > > Sent: Tuesday, 6 March 2012, 17:27
> > > > Subject: [hp8924] Re: Using the HP 83236B as Spectrum analyzer downconverter
> > > >
> > > >
> > > > Ã□â□□Ã□Â
> > > > Hi Robert,
> > > >
> > > > Thank you very much for the hint. I confirm it works. I have used the HP-8924c with a couple of minicircuits SRA-11 mixers with an external LO and a splitter.
> > > >
> > > > I wonder if the 83236B could provide a neater solution. A photo of the inside shows a very simple RF section with no filters (http://www.rfdh.com/ez1202/ezboard.cgi?db=info_ad&action=read&dbf=21703&page=0&depth=1). Unfortunately I do not own one (yet...) to confirm.
> > > >
> > > > Thanks again and I will keep you posted.
> > > >
> > > > 73
> > > > Yiannis
> > > > sv1mne
> > > >
> > > > --- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@> wrote:
> > > > >
> > > > > Hi Yannis,
> > > > > While the 83236B block diagram does not show filters, it almost certainly does have them and they will limit operation to the PCS band. I've used a simple external mixer to extend the range of my 8924C.Ã□Æ'Ã¢â□¬Å¡Ã□â□□Ã□Â  I just used the signal generator output on the aux port as the local oscillator. I used a packaged Mini-circuits balanced mixer. An external LO and two mixers will give you a tracking generator too. I used this setup to sweep some GPS filters. Ideally the external LO should be locked to the reference of the 8924C

> > > > >
> > > > > Hope this helps,
> > > > > Robert G8RPI.
> > > > >
> > > > >
> > > > >
> > > > > _____
> > > > > From: sv1mne <sv1mne@>
> > > > > To: hp8924@yahoogroups.com
> > > > > Sent: Monday, 5 March 2012, 13:47
> > > > > Subject: [hp8924] Using the HP 83236B as Spectrum analyzer downconverter
> > > > >
> > > > >
> > > > > Ã□Æ'Ã¢â□¬Å¡Ã□â□□Ã□Â
> > > > > Hi, I am interested in using the HP 83236B as Spectrum analyzer downconverter. Is it possible?
> > > > > Any other idea regarding 1000-2000 MHZ and 2000-3000 MHz frequency conversion for the HP8924c?
> > > > >
> > > > > Best R.
> > > > >
> > > > > Yiannis
> > > > > sv1mne
> > > > > Athens/Greece
> > > > >
> > > > > ps Joe Leikhim posted the same question in HP equipment Group but got no answers.
> > > > >
> > > > > --- In hp_agilent_equipment@yahoogroups.com, Joe Leikhim <rhyolite@> wrote:
> > > > > >
> > > > > > Is anyone familiar with the HP 83236B PCS band (freq conversion) adapter
> > > > > > for the HP8920B? I have questions as to the utility of this unit to
> > > > > > extend the frequency of operation of my HP8920B outside the limited PCS
> > > > > > band ranges this unit was meant for. The block diagram shows a rather
> > > > > > simple converter without any bandpass filtering. Specifically my questions:
> > > > > >
> > > > > > Can it be programmed to convert the 30-1000 MHz operation of the HP8920B
> > > > > > to 1030-2000 MHz? Can it operate duplex, for example to perform tracking
> > > > > > generator operation swept 1030-2000 MHz?
> > > > > >
> > > > > > Can "script" be written in iBasic to accomplish this? Can it display the
> > > > > > frequency of operation resulting from the conversion?
> > > > > >
> > > > > > Any practical experience is appreciated.
> > > > > >
> > > > > > --
> > > > > > Joe Leikhim
> > > > > >
> > > > > > Leikhim and Associates
> > > > > > Communications Consultants
> > > > > > Oviedo, Florida
> > > > > >

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>

# 753. Re: [hp8924] 8294c Prospective Purchase Advice

Yahoo group: hp8924
Date: 2012-03-11 14:49:37 UTC
From: Michael A. Waldron
Topic: 747  Message: 753

I bought mine from an eBay seller, RFE_Toys in Washington state. Dan was very straightforward and honest about the condition of the analyzer I would receive. He told me he is a former HP employee that worked in their test equipment division in Washington before they relocated it.

My unit arrived very well packed and 100% functional. When it's turned off it's easy to see it spent it's life on the CDMA test screen but once you power it in the burn-in doesn't effect operation at all and the display is easy to read. I peeked inside the case to see if it was full of dust, and the unit appeared to be internally very clean.

Dan did tell me he calibrates his units, but he doesn't provide any sort of certification so if that's important you probably want to go right to Amtronix.

It's likely that if I find a good deal on a new CRT I will purchase it. I'm also likely to get a spare power supply since those seem to be the things that die and I'd like to have this for another 20 years or more. Something else to consider is that with the GBS-8200 is a lot cheaper and easier than a new CRT.

Anyway I was very happy with Dan's product and his prices were able to get me a piece of equipment I had wanted for years and just couldn't afford any other way. I have little doubt I'll be dealing with Amtronix in the future too, and their reputation is impeccable.

I have been learning how to use it 1 function at a time over the last few months and I finally have all the basic stuff down. My next trick is to learn how to tune a duplexer.

-Mike AE0MW

On 3/11/2012 7:19 AM, Dawn wrote:
> I'm looking to purchase a 8294c, but besides the high power and spec/tracking generator option, I'm hoping to find what an optimum combination and model revision would be. I don't think that I'm going to find a mechanical attenuator version among the lot that are listed on e-bay. The prices look good under $1K USD, but I'm also wondering if it's worth the extra $600-$700 USD to buy one tested and semi-refurbished from a reliable vendor such as Amtronics. I'm sure that many of you have taken both routes and have retrospective opinions based on experience. Ebay vendors seem to have some very clean looking units with 60/100W inputs and the spectrum analyzer options that claim to pass on board diagnostics and some include the RF tools card.
>
> Any advice for someone looking to purchase one? Would most of these pulled from service have significant screen burn/monitor deterioration that would warrant a new crt or replacement monitor module?
>
> dwt
>
>

--
Michael A. Waldron, AE0MW
http://www.mikew.org
PGP: http://www.mikew.org/mypgpkey.txt

# 754. Re: 8294c Prospective Purchase Advice

Yahoo group: hp8924
Date: 2012-03-11 14:55:57 UTC
From: Skip
Topic: 747  Message: 754

I bought mine from the test equipment surplus (jtsele@... ) on ebay and had good results. I know at at least half a dozen hams have also bought from him, all with good results. One big thing to me is that he's local so I could pick it up in person. You really don't want to ship a 8924c if you can avoid it. It's HUGE and HEAVY. He allowed me to power up the unit and run all of the diagnostics (I took my own cables) prior to purchase. See the Yahoo group's file area for instructions on running the diagnostics.

I thought mine had severe screen burn, but when it's on I don't even notice it. No problems at all in my dark shack. I have a VGA board for backup.

You'll love it.

Skip WB6YMH

--- In hp8924@yahoogroups.com, "Dawn" <dawntredereding@...> wrote:
>
> I'm looking to purchase a 8294c, but besides the high power and spec/tracking generator option, I'm hoping to find what an optimum combination and model revision would be. I don't think that I'm going to find a mechanical attenuator version among the lot that are listed on e-bay. The prices look good under $1K USD, but I'm also wondering if it's worth the extra $600-$700 USD to buy one tested and semi-refurbished from a reliable vendor such as Amtronics. I'm sure that many of you have taken both routes and have retrospective opinions based on experience. Ebay vendors seem to have some very clean looking units with 60/100W inputs and the spectrum analyzer options that claim to pass on board diagnostics and some include the RF tools card.
>
> Any advice for someone looking to purchase one? Would most of these pulled from service have significant screen burn/monitor deterioration that would warrant a new crt or replacement monitor module?
>
>
> dwt
>

# 755. Re: [hp8924] Re: Using the HP 83236B as Spectrum analyzer downconverter

Yahoo group: hp8924
Date: 2012-03-11 16:16:39 UTC
From: Robert Atkinson
Topic: 726  Message: 755

Hi Yannis,
I had a look at the setup I last used (about 3 years ago). I used two mini-circuits ZFM-15 mixers because they were to hand, but the ZFM-4300 might be a better choice. Looking through my junk box I found a phase lock module and YIG from a old 8554A 141T RF plug-in. This will give a nice 2-3GHz LO locked to a 1MHz crystal in the phase lock module. A modification to replace the 1MHz crystal with a divide by ten fed from the 8924C reference would keep everything locked up. All I need is some time :o)

Robert G8RPI.

_____
From: sv1mne <sv1mne@...>
To: hp8924@yahoogroups.com
Sent: Sunday, 11 March 2012, 14:43
Subject: [hp8924] Re: Using the HP 83236B as Spectrum analyzer downconverter

Robert, I bought mine from Israel. Sometomes they have us equipment with much lower shipping costs. But have in mind that you cannot use the tracking gen with the 83236 and after many hours of experimenting, I feel more comfortable with the MMDS Downconverter and your suggestion for using two mixers and locking the pll to the 8924 ref seems even better.

Thanks

Yiannis

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Hi Yannis,
> Glad it all works OK. I'd buy one myself but the cost shipping to the UK just kills the deal.
>
> Regards,
> Robert G8RPI.
>
>
>
> _____
> From: sv1mne <sv1mne@...>
> To: hp8924@yahoogroups.com
> Sent: Saturday, 10 March 2012, 8:14
> Subject: [hp8924] Re: Using the HP 83236B as Spectrum analyzer downconverter
>
>
> Â
> Hi again Robert,

>
> The HP 83236B arrived yesterday. It works fine as a 1700-2000 MHz transverter, with full control from the HP-8924c and HP-8924e.
> As you said, the main RF assembly is underneath the large PCB. It seems quite complex, exactly what you would expect for a laboratory microwave instrument with full control and self-check. The range 1700-2000 MHz is restricted in firmware so it cannot easily go outside those limits. Of course striping out all control circuitry and filters could leave a quite decent down/up converter, but I think its a pity... I'll keep it as is since the MMDS downconverters helped me cover my main need. Now I am working on an upconverter for extending the tracking generator.
>
> Thanks again for your help.
>
> 73
>
> Yiannis
> sv1mne
> --- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@> wrote:
> >
> > Hi Yannis,
> > You can't go wrong with a 83236B for $70. The step attenuator alone is worth at least twice that.Ã‚Â  It will be interesting to see what is under the main PCB. If you are lucky it will be more indivdually packaged RF modules. It's at least a quality case, connectorsÃ‚Â  etc. The MMDS down converters look ideal for 2.4 GHz. Lots of info on retuning them on the web. They have the advantage that they are cheap and plentiful so it is worth spending time on and possibly damaging some to get a solution. The 83220Eis just too big to work on, too complex and too application specific.
> >
> > Have fun,
> > Robert G8RPI.
> >
> >
> >
> > _____
> > From: sv1mne <sv1mne@>
> > To: hp8924@yahoogroups.com
> > Sent: Thursday, 8 March 2012, 19:40
> > Subject: [hp8924] Re: Using the HP 83236B as Spectrum analyzer downconverter
> >
> >
> > Ã‚Â
> > Hi Robert,
> >
> > In the meantime, I found a simple solution for my main need to cover the WiFi frequencies. I modified a California Amplifier MMDS downconverter which converts the 2500-2786 Mhz satellite TV band to 222-408 Mhz using a 2278 LO. By modifying the input filter I got a quite decent coverage of the 2,5 GHz spectrum +/- 300 Mhz.
> >
> > Currently the Downconverters sell for about $14 (for a pack of two!) on eBay.
> >

> > 73
> > Yiannis
> >
> > --- In hp8924@yahoogroups.com, "sv1mne" <sv1mne@> wrote:
> > >
> > > Hi again Robert,
> > >
> > > Thank you for sharing your valuable experience. I think we will have the answer in a couple of weeks as I found a 83236B in about 70Ã¢â€šÂ¬. Worst case scenario, I will try to use the main components, keeping the mixers and attenuators and removing filters and control circuits.
> > >
> > > I'll keep you posted.
> > >
> > > 73
> > >
> > > Yiannis
> > > sv1mne
> > >
> > > --- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@> wrote:
> > > >
> > > > Hi Yannis,
> > > > The main RF assembly appears to be underneath the large PCB. YouÃƒâ€šÃ‚Â  can see 4 or 5 SMAs connecting to it. there is also no mixer visible in the picture, just a couple of attenuators and a coaxial relay. I,ve never seen a 83236B as we don't have PCS in the UK, but have scrapped a couple of the 83220E up/down converters used with the 8922x. This have fairly complex complex RF circuits. They are mostly stripline PCB construction and include filters. They are not suitable for use as a general purpose down converter.
> > > >
> > > > The 70912 module intended to be used with the 70700 digitiser in the 70000 mainframe might be a good choice if you can find a cheap one. it's a 10MHz to 1500MHz converter. A quick look indicates that you could buy a mixer, amplifier, oscillator and filters in surface mount (stripline) packaging from Mini-Circuits for around $50. This would make a basic 1-2GHz down converter. Adding external attenuators and phase locking the oscillator to the 8924C's reference would make a useful unit. I also have an odd Tektronix unit, a 1405 Opt01 Television sideband adaptor, that looks usable too. It has a tunable oscillator and a packaged mixer. I just don't have time to play at the moment.
> > > >
> > > > Robert G8RPI.
> > > >
> > > >
> > > >
> > > > _____
> > > > From: sv1mne <sv1mne@>
> > > > To: hp8924@yahoogroups.com
> > > > Sent: Tuesday, 6 March 2012, 17:27
> > > > Subject: [hp8924] Re: Using the HP 83236B as Spectrum analyzer downconverter
> > > >
> > > >
> > > > Ãƒâ€šÃ‚Â

> > > > Hi Robert,
> > > >
> > > > Thank you very much for the hint. I confirm it works. I have used the HP-8924c with a couple of minicircuits SRA-11 mixers with an external LO and a splitter.
> > > >
> > > > I wonder if the 83236B could provide a neater solution. A photo of the inside shows a very simple RF section with no filters (http://www.rfdh.com/ez1202/ezboard.cgi?db=info_ad&action=read&dbf=21703&page=0&depth=1). Unfortunately I do not own one (yet...) to confirm.
> > > >
> > > > Thanks again and I will keep you posted.
> > > >
> > > > 73
> > > > Yiannis
> > > > sv1mne
> > > >
> > > > --- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@> wrote:
> > > > >
> > > > > Hi Yannis,
> > > > > While the 83236B block diagram does not show filters, it almost certainly does have them and they will limit operation to the PCS band. I've used a simple external mixer to extend the range of my 8924C.ÃƒÆ'Ã¢â‚¬Å¡Ãƒâ€šÃ‚Â  I just used the signal generator output on the aux port as the local oscillator. I used a packaged Mini-circuits balanced mixer. An external LO and two mixers will give you a tracking generator too. I used this setup to sweep some GPS filters. Ideally the external LO should be locked to the reference of the 8924C
> > > > >
> > > > > Hope this helps,
> > > > > Robert G8RPI.
> > > > >
> > > > >
> > > > >
> > > > > _____
> > > > > From: sv1mne <sv1mne@>
> > > > > To: hp8924@yahoogroups.com
> > > > > Sent: Monday, 5 March 2012, 13:47
> > > > > Subject: [hp8924] Using the HP 83236B as Spectrum analyzer downconverter
> > > > >
> > > > >
> > > > > ÃƒÆ'Ã¢â‚¬Å¡Ãƒâ€šÃ‚Â
> > > > > Hi, I am interested in using the HP 83236B as Spectrum analyzer downconverter. Is it possible?
> > > > > Any other idea regarding 1000-2000 MHZ and 2000-3000 MHz frequency conversion for the HP8924c?
> > > > >
> > > > > Best R.
> > > > >
> > > > > Yiannis
> > > > > sv1mne
> > > > > Athens/Greece

> > > > >
> > > > > ps Joe Leikhim posted the same question in HP equipment Group but got no answers.
> > > > >
> > > > > --- In hp_agilent_equipment@yahoogroups.com, Joe Leikhim <rhyolite@> wrote:
> > > > > >
> > > > > > Is anyone familiar with the HP 83236B PCS band (freq conversion) adapter
> > > > > > for the HP8920B? I have questions as to the utility of this unit to
> > > > > > extend the frequency of operation of my HP8920B outside the limited PCS
> > > > > > band ranges this unit was meant for. The block diagram shows a rather
> > > > > > simple converter without any bandpass filtering. Specifically my questions:
> > > > > > >
> > > > > > > Can it be programmed to convert the 30-1000 MHz operation of the HP8920B
> > > > > > > to 1030-2000 MHz? Can it operate duplex, for example to perform tracking
> > > > > > > generator operation swept 1030-2000 MHz?
> > > > > > >
> > > > > > > Can "script" be written in iBasic to accomplish this? Can it display the
> > > > > > > frequency of operation resulting from the conversion?
> > > > > > >
> > > > > > > Any practical experience is appreciated.
> > > > > > >
> > > > > > > --
> > > > > > > Joe Leikhim
> > > > > > >
> > > > > > > Leikhim and Associates
> > > > > > > Communications Consultants
> > > > > > > Oviedo, Florida
> > > > > > >
> > > > > > > www.Leikhim.com
> > > > > > >
> > > > > > > JLeikhim@
> > > > > > >
> > > > > > > 407-982-0446
> > > > > > >
> > > > > >
> > > > >
> > > >
> >
>

# 756. Re: [hp8924] Re: 8294c Prospective Purchase Advice

Yahoo group: hp8924
Date: 2012-03-11 19:09:39 UTC
From: gerald bishop
Topic: 747  Message: 756

HI- Bought 3 ant. chips on E-Bay- 100 watt. 30 bucks. The mod for it is in the Yahoo groups. Good luck. Jerry

--- On Sun, 3/11/12, Skip <freebsdfan@hotmail.com> wrote:

From: Skip <freebsdfan@...>
Subject: [hp8924] Re: 8294c Prospective Purchase Advice
To: hp8924@yahoogroups.com
Date: Sunday, March 11, 2012, 10:55 AM

I bought mine from the test equipment surplus (jtsele@... ) on ebay and had good results. I know at at least half a dozen hams have also bought from him, all with good results. One big thing to me is that he's local so I could pick it up in person. You really don't want to ship a 8924c if you can avoid it. It's HUGE and HEAVY. He allowed me to power up the unit and run all of the diagnostics (I took my own cables) prior to purchase. See the Yahoo group's file area for instructions on running the diagnostics.

I thought mine had severe screen burn, but when it's on I don't even notice it. No problems at all in my dark shack. I have a VGA board for backup.

You'll love it.

Skip WB6YMH

--- In hp8924@yahoogroups.com, "Dawn" <dawntredereding@...> wrote:

>

> I'm looking to purchase a 8294c, but besides the high power and spec/tracking generator option, I'm hoping to find what an optimum combination and model revision would be. I don't think that I'm going to find a mechanical attenuator version among the lot that are listed on e-bay. The prices look good under $1K USD, but I'm also wondering if it's worth the extra $600-$700 USD to buy one tested and semi-refurbished from a reliable vendor such as Amtronics. I'm sure that many of you have taken both routes and have retrospective opinions based on experience. Ebay vendors seem to have some very clean looking units with 60/100W inputs and the spectrum analyzer options that claim to pass on board diagnostics and some include the RF tools card.

>

> Any advice for someone looking to purchase one? Would most of these pulled from service have significant screen burn/monitor deterioration that would warrant a new crt or replacement monitor module?

>

>

```
> dwt

>
```

# 757. RE: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Yahoo group: hp8924
Date: 2012-03-12 08:02:40 UTC
From: Mike, KD7MG
Topic: 730  Message: 757

OK boys and girls. The file is finally ready for downloading. Many thanks to Joe Leikhim, K4SAT for providing the VHS video and Rich Vanderwerker, N9EMS for doing the analog to digital conversion. As was mentioned, the quality is not quite up to today's standards, but is probably not far from what a copy of the original tape could muster.

This plays fine on Windows 7 or Vista using the latest Windows Media Player, however, you may find Windows XP machines might need an additional codec. I tested many of the popular add-on "Codec Packs" and they all worked fine. An alternative, is to use a different media player, such as the VLC Player, or (my favorite) the GOM Player.

Ubuntu 11 had no problem playing it with their native Movie Player. It also ran fine using Banshee, SMPlayer, and VLC. Sorry, no MAC VM, so you're on your own. J

For those with slower DL capabilities, Joe included a set of 5 split files that can be downloaded individually and reconstructed using 7-Zip. The reconstructed file size ends up being slightly larger than the direct download one, but appears to be identical while played. (Not sure what happened there.)

OK, here's the link.
http://grovesnet.org/Downloads

Cheers,
Mike, KD7MG

# 758. Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Yahoo group: hp8924
Date: 2012-03-12 14:11:52 UTC
From: Joe Leikhim
Topic: 730  Message: 758

If anyone has a problem with the zip file re-constitution please let me know and I will correct an upload the zip file(s). Thank you Mike KD7MG and Rich N9EMS for making this work and salvaging this relic! It is worth the watch to figure out all the shortcuts and button sub functions alone!

--
Joe Leikhim

Leikhim and Associates
Communications Consultants
Oviedo, Florida

www.Leikhim.com

JLeikhim@...

407-982-0446

Note to GMail Account users. Due to an abnormally high volume of spam originating from bogus GMail accounts, I have found it necessary to block certain GMail traffic. Please phone me if you believe your message was not received.

# 759. Re: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Yahoo group: hp8924
Date: 2012-03-12 14:17:53 UTC
From: Tony Brignole
Topic: 730  Message: 759

Mike and Joe, thanks for all the effort. I am very interested in it. If there was any expense involved I sure won't mind contributing to the effort. Let me know how.

I am having a problem with the download. I have tried 2x times and both times it cut off around 850 Meg. File size shows 1.12 gig. It is taking something like 25 minutes. Wonder if my server or yours is timing out? I am on Comcast with a high speed line and have loaded several large files over 1 Gig but they were at a lot higher download speed and didn't take as much time.

I am running XP Pro so I will have to find a different viewer or codec. I also have two machines running 7 Pro so I can see it on that.

Any ideas???

----- Original Message -----
From: Mike, KD7MG
To: hp8924@yahoogroups.com
Sent: Monday, March 12, 2012 3:02 AM
Subject: RE: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

OK boys and girls. The file is finally ready for downloading. Many thanks to Joe Leikhim, K4SAT for providing the VHS video and Rich Vanderwerker, N9EMS for doing the analog to digital conversion. As was mentioned, the quality is not quite up to today's standards, but is probably not far from what a copy of the original tape could muster.

This plays fine on Windows 7 or Vista using the latest Windows Media Player, however, you may find Windows XP machines might need an additional codec. I tested many of the popular add-on "Codec Packs" and they all worked fine. An alternative, is to use a different media player, such as the VLC Player, or (my favorite) the GOM Player.

Ubuntu 11 had no problem playing it with their native Movie Player. It also ran fine using Banshee, SMPlayer, and VLC. Sorry, no MAC VM, so you're on your own. J

For those with slower DL capabilities, Joe included a set of 5 split files that can be downloaded individually and reconstructed using 7-Zip. The reconstructed file size ends up being slightly larger than the direct download one, but appears to be identical while played. (Not sure what happened there.)

OK, here's the link.
http://grovesnet.org/Downloads

Cheers,
Mike, KD7MG

# 760. Re: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Yahoo group: hp8924
Date: 2012-03-12 14:54:10 UTC
From: Tony Brignole
Topic: 730  Message: 760

Thanks again for all the work. I am looking forward to the video. I have learned a lot from this group and added the video converter and a 15 inch CRT. It works great.

I have had my 8924C for about 3 years and not being an expert I am still finding things in menu's. I was poking around one day in the sub menu's and there was large kerchunk and a cold 12 can of Budweiser came out the back. Haven't been able to find that menu again. Maybe it will be in the video or I need some kind of converter.

\
----- Original Message -----
From: Joe Leikhim
To: hp8924@yahoogroups.com
Sent: Monday, March 12, 2012 9:11 AM
Subject: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

If anyone has a problem with the zip file re-constitution please let me know and I will correct an upload the zip file(s). Thank you Mike KD7MG and Rich N9EMS for making this work and salvaging this relic! It is worth the watch to figure out all the shortcuts and button sub functions alone!

--
Joe Leikhim

Leikhim and Associates
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JLeikhim@...

407-982-0446

Note to GMail Account users. Due to an abnormally high volume of spam originating from bogus GMail accounts, I have found it necessary to block certain GMail traffic. Please phone me if you believe your message was not received.

# 761. Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Yahoo group: hp8924
Date: 2012-03-12 16:10:26 UTC
From: rfiemiguy
Topic: 730  Message: 761

Tony;
I was able to DL the large M4V file in about 30 minutes with a standard rate cable modem (Brighthouse). Try resetting your cable modem and trying at a an off hour time of day.

Alternately, you might have luck DL the 5 zip files and using winzip or 7-zip to reassemble.

--- In hp8924@yahoogroups.com, "Tony Brignole" <abrigno@...> wrote:
>
> Mike and Joe, thanks for all the effort. I am very interested in it. If there was any expense involved I sure won't mind contributing to the effort. Let me know how.
>
> I am having a problem with the download. I have tried 2x times and both times it cut off around 850 Meg. File size shows 1.12 gig. It is taking something like 25 minutes. Wonder if my server or yours is timing out? I am on Comcast with a high speed line and have loaded several large files over 1 Gig but they were at a lot higher download speed and didn't take as much time.
>
> I am running XP Pro so I will have to find a different viewer or codec. I also have two machines running 7 Pro so I can see it on that.
>
> Any ideas???
>
> ----- Original Message -----
> From: Mike, KD7MG
> To: hp8924@yahoogroups.com
> Sent: Monday, March 12, 2012 3:02 AM
> Subject: RE: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!
>
>
>
>
> OK boys and girls. The file is finally ready for downloading. Many thanks to Joe Leikhim, K4SAT for providing the VHS video and Rich Vanderwerker, N9EMS for doing the analog to digital conversion. As was mentioned, the quality is not quite up to today's standards, but is probably not far from what a copy of the original tape could muster.
>
> This plays fine on Windows 7 or Vista using the latest Windows Media Player, however, you may find Windows XP machines might need an additional codec. I tested many of the popular add-on "Codec Packs" and they all worked fine. An alternative, is to use a different media player, such as the VLC Player, or (my favorite) the GOM Player.
>
> Ubuntu 11 had no problem playing it with their native Movie Player. It also ran fine using Banshee, SMPlayer, and VLC. Sorry, no MAC VM, so you're on your own. J
>

> For those with slower DL capabilities, Joe included a set of 5 split files that can be downloaded individually and reconstructed using 7-Zip. The reconstructed file size ends up being slightly larger than the direct download one, but appears to be identical while played. (Not sure what happened there.)
>
> OK, here's the link.
> http://grovesnet.org/Downloads
>
> Cheers,
> Mike, KD7MG
>

# 762. RE: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Yahoo group: hp8924
Date: 2012-03-12 16:42:05 UTC
From: Ralph Mowery
Topic: 730  Message: 762

Thanks to all that put out this file.

I am using Windows XP and downloaded the VLC player and GOM.  They both play the file. Several other programs I have would not play the file.

Now I just need time to look at the whole thing.

--- On Mon, 3/12/12, Mike, KD7MG <kd7mg@...> wrote:

From: Mike, KD7MG <kd7mg@...>
Subject: RE: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!
To: hp8924@yahoogroups.com
Date: Monday, March 12, 2012, 4:02 AM

OK boys and girls. The file is finally ready for downloading. Many thanks to Joe Leikhim, K4SAT for providing the VHS video and Rich Vanderwerker, N9EMS for doing the analog to digital conversion.  As was mentioned, the quality is not quite up to today's standards, but is probably not far from what a copy of the original tape could muster.

This plays fine on Windows 7 or Vista using the latest Windows Media Player, however, you may find Windows XP machines might need an additional codec. I tested many of the popular add-on "Codec Packs" and they all worked fine. An alternative, is to use a different media player, such as the VLC Player, or (my favorite) the GOM Player.

Ubuntu 11 had no problem playing it with their native Movie Player. It also ran fine using Banshee, SMPlayer, and VLC. Sorry, no MAC VM, so you're on your own. J

For those with slower DL capabilities, Joe included a set of 5 split files that can be downloaded individually and reconstructed using 7-Zip. The reconstructed file size ends up being slightly larger than the direct download one, but appears to be identical while played. (Not sure what happened there.)

OK, here's the link…
http://grovesnet.org/Downloads

Cheers,
Mike, KD7MG

# 763. Re: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Yahoo group: hp8924
Date: 2012-03-12 17:36:49 UTC
From: Tony Brignole
Topic: 730  Message: 763

I had trouble downloading the whole file and I sent a note to gang.

Both times I downloaded it - it stopped around 850 Meg bytes vs. a file size of 1.12 Gig. I am showing down load speeds of about 750 Kbps. and I am wondering if something is timing out.

I am running Win XP Pro with Comcast. I show download speeds around 25 Mbps so don't think bottleneck is on my end.

I have download the pieces but hope single download will work.

I have VLC player and can use it, so it is good info. Sounds like I may need to get GOM also.

----- Original Message -----
From: Ralph Mowery
To: hp8924@yahoogroups.com
Sent: Monday, March 12, 2012 11:42 AM
Subject: RE: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Thanks to all that put out this file.

I am using Windows XP and downloaded the VLC player and GOM. They both play the file. Several other programs I have would not play the file.

Now I just need time to look at the whole thing.

--- On Mon, 3/12/12, Mike, KD7MG <kd7mg@...> wrote:

From: Mike, KD7MG <kd7mg@...>
Subject: RE: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!
To: hp8924@yahoogroups.com
Date: Monday, March 12, 2012, 4:02 AM

OK boys and girls. The file is finally ready for downloading. Many thanks to Joe Leikhim, K4SAT for providing the VHS video and Rich Vanderwerker, N9EMS for doing the analog to digital conversion. As was mentioned, the quality is not quite up to today’s standards, but is probably not far from what a copy of the original tape could muster.

This plays fine on Windows 7 or Vista using the latest Windows Media Player, however, you may find Windows XP machines might need an additional codec. I tested many of the popular add-on “Codec Packs” and they all worked fine. An alternative, is to use a different media player, such as the VLC Player, or (my favorite) the GOM Player.

Ubuntu 11 had no problem playing it with their native Movie Player. It also ran fine using Banshee, SMPlayer, and VLC. Sorry, no MAC VM, so you’re on your own. J

For those with slower DL capabilities, Joe included a set of 5 split files that can be downloaded individually and reconstructed using 7-Zip. The reconstructed file size ends up being slightly larger than the direct download one, but appears to be identical while played. (Not sure what happened there.)

OK, here’s the link…
http://grovesnet.org/Downloads

Cheers,
Mike, KD7MG

# 764. Re: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Yahoo group: hp8924
Date: 2012-03-12 18:14:33 UTC
From: Ralph Mowery
Topic: 730  Message: 764

Tony I have a cable connecton and the computer said about 20 minuits to download.  I did not time it. Was running about 1 meg speed for the download on the computer screen.  I think the down load speed is normally 8 or 10 mbs for my system in tests. Seems like it downloaded the large file and then a smaller one for some reason.  The final results was just one file about 1.2 GB.

The VLC player should work for you.  It did for me,  I downloaded that and the GOM while I was hunting for something to play the file as none of the other programs I had would show it.  Atleast the programs are free.  Seems that everytime I turn around there is a new format in the vidio file to look for.  Will save me time when I run across other vidio formats.

--- On Mon, 3/12/12, Tony Brignole <abrigno@...> wrote:

From: Tony Brignole <abrigno@...>
Subject: Re: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!
To: hp8924@yahoogroups.com
Date: Monday, March 12, 2012, 1:36 PM

□

I had trouble downloading the whole file and I sent a note to gang.

Both times I downloaded it - it stopped around 850 Meg bytes vs. a file size of 1.12 Gig. I am showing down load speeds of about 750 Kbps. and I am wondering if something is timing out.

I am running Win XP Pro with Comcast. I show download speeds around 25 Mbps so don't think bottleneck is on my end.

I have download the pieces but hope single download will work.

I have VLC player and can use it, so it is good info. Sounds like I may need to get GOM also.

# 765. RE: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Yahoo group: hp8924
Date: 2012-03-12 19:05:06 UTC
From: Mike, KD7MG
Topic: 730  Message: 765

Yeah, I'm having problems now too DL'ing the whole thing without having it quit ¾ of the way through. It's on a shared webhosting service that I've had with 1and1.com for many years. They might be artificially limiting large DL's, as it's not exactly in harmony with their terms of service. Grrr… The only thing I can suggest is to DL the 5 parts and put them together.

Another option is for someone to host a torrent. I've DL'ed a few, but never started one, so I'm not fully up on the procedure of getting all the trackers set up correctly.

Mike, KD7MG

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Tony Brignole
Sent: Monday, March 12, 2012 11:37 AM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

☐ I had trouble downloading the whole file and I sent a note to gang.

Both times I downloaded it - it stopped around 850 Meg bytes vs. a file size of 1.12 Gig. I am showing down load speeds of about 750 Kbps. and I am wondering if something is timing out.

I am running Win XP Pro with Comcast. I show download speeds around 25 Mbps so don't think bottleneck is on my end.

I have download the pieces but hope single download will work.

I have VLC player and can use it, so it is good info. Sounds like I may need to get GOM also.

----- Original Message -----

From: Ralph Mowery <mailto:ku4pt@...>

To: hp8924@yahoogroups.com

Sent: Monday, March 12, 2012 11:42 AM

Subject: RE: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Thanks to all that put out this file.

I am using Windows XP and downloaded the VLC player and GOM. They both play the file. Several other programs I have would not play the file.

Now I just need time to look at the whole thing.

--- On Mon, 3/12/12, Mike, KD7MG <kd7mg@...> wrote:

From: Mike, KD7MG <kd7mg@...>
Subject: RE: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!
To: hp8924@yahoogroups.com
Date: Monday, March 12, 2012, 4:02 AM

OK boys and girls. The file is finally ready for downloading. Many thanks to Joe Leikhim, K4SAT for providing the VHS video and Rich Vanderwerker, N9EMS for doing the analog to digital conversion. As was mentioned, the quality is not quite up to today's standards, but is probably not far from what a copy of the original tape could muster.

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For those with slower DL capabilities, Joe included a set of 5 split files that can be downloaded individually and reconstructed using 7-Zip. The reconstructed file size ends up being slightly larger than the direct download one, but appears to be identical while played. (Not sure what happened there.)

OK, here's the link…
http://grovesnet.org/Downloads

Cheers,
Mike, KD7MG

# 766. Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Yahoo group: hp8924
Date: 2012-03-12 19:21:25 UTC
From: n5qs
Topic: 730  Message: 766

I have not had any luck downloading it
I have tried 2 different computers on 2 different internet accounts and the most I can get is 8 meg before it thinks it is finished.
Roger

--- In hp8924@yahoogroups.com, "Mike, KD7MG" <kd7mg@...> wrote:
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> Yeah, Iâ□□m having problems now too DLâ□□ing the whole thing without having it quit Â¾ of the way through. Itâ□□s on a shared webhosting service that Iâ□□ve had with 1and1.com for many years. They might be artificially limiting large DLâ□□s, as itâ□□s not exactly in harmony with their terms of service. Grrrâ□¦ The only thing I can suggest is to DL the 5 parts and put them together.
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> Sent: Monday, March 12, 2012 11:37 AM
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> Subject: Re: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!
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> To: hp8924@yahoogroups.com
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> Cheers,
> Mike, KD7MG
>

# 767. Re: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Yahoo group: hp8924
Date: 2012-03-12 20:13:55 UTC
From: Josh Kittle
Topic: 730  Message: 767

I'll try and help geting a version that will play on the MAC once I get a playing copy - I've downloaded the complete file and couldn't open it with VLC or quicktime or any of my other media players. Downloading the zip pieces to try and piece things back together, I'm suspicious of the size of the whole file, looked like ~950 meg to me. I'm on a very high speed connection, I seriously doubt incomplete downloads are my problem.

Josh

On Mon, Mar 12, 2012 at 3:21 PM, n5qs <ygroup@...> wrote:

> **
>
>
> I have not had any luck downloading it
> I have tried 2 different computers on 2 different internet accounts and
> the most I can get is 8 meg before it thinks it is finished.
> Roger
>
> --- In hp8924@yahoogroups.com, "Mike, KD7MG" <kd7mg@...> wrote:
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> > Another option is for someone to host a torrent. Iâ€™ve DLâ€™ed a few,
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> > Mike, KD7MG
> >
> >
> >
> > From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf
> Of Tony Brignole
> > Sent: Monday, March 12, 2012 11:37 AM
> > To: hp8924@yahoogroups.com
> > Subject: Re: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!
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> > I have download the pieces but hope single download will work.
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> > I have VLC player and can use it, so it is good info. Sounds like I may
> need to get GOM also.
> >
> >
> >
> > ----- Original Message -----
> >
> > From: Ralph Mowery <mailto:ku4pt@...>
> >
> > To: hp8924@yahoogroups.com
> >
> > Sent: Monday, March 12, 2012 11:42 AM
> >
> > Subject: RE: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!
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> > Cheers,
> > Mike, KD7MG
> >
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>

# 768. Re: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Yahoo group: hp8924
Date: 2012-03-12 20:30:46 UTC
From: James Fosse
Topic: 730  Message: 768

I'm uploading it to my web site right now to see if we can get around the download issue. It should be available about 2p.m. pacific time.

http://www.vvgmc.org/freda/Hp8920a%20Rf%20Communication%20Set-1.m4v

On Monday, March 12, 2012 01:05:06 PM you wrote:

73's
jim
ki6njf

On Monday, March 12, 2012 01:05:06 PM you wrote:

Yeah, I'm having problems now too DL'ing the whole thing without having it quit ¾ of the way through. It's on a shared webhosting service that I've had with 1and1.com for many years. They might be artificially limiting large DL's, as it's not exactly in harmony with their terms of service. Grrr… The only thing I can suggest is to DL the 5 parts and put them together.

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Mike, KD7MG

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Tony Brignole
Sent: Monday, March 12, 2012 11:37 AM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

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I have download the pieces but hope single download will work.

I have VLC player and can use it, so it is good info. Sounds like I may need to get GOM also.

----- Original Message -----
From: Ralph Mowery
To: hp8924@yahoogroups.com

Sent: Monday, March 12, 2012 11:42 AM
Subject: RE: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

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Cheers,
Mike, KD7MG

# 769. Re: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Yahoo group: hp8924
Date: 2012-03-12 20:36:14 UTC
From: Tony Brignole
Topic: 730  Message: 769

It looks like 800 meg is the limit for some reason.

It downloaded the pieces fine and I can unzip and assemble.

Can somebody give a quick procedure for Win XP or Win 7??

----- Original Message -----
From: n5qs
To: hp8924@yahoogroups.com
Sent: Monday, March 12, 2012 2:21 PM
Subject: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

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I have tried 2 different computers on 2 different internet accounts and the most I can get is 8 meg before it thinks it is finished.
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> Sent: Monday, March 12, 2012 11:42 AM
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# 770. Re: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Yahoo group: hp8924
Date: 2012-03-12 20:38:41 UTC
From: Josh Kittle
Topic: 730  Message: 770

VLC and Quicktime on the MAC love it when extracted from the zip file
version. Good to go here.

On Mon, Mar 12, 2012 at 4:30 PM, James Fosse <jafconsulting@...>wrote:

> **
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> **
>
> I'm uploading it to my web site right now to see if we can get around the
> download issue. It should be available about 2p.m. pacific time.
>
>
>
> http://www.vvgmc.org/freda/Hp8920a%20Rf%20Communication%20Set-1.m4v
>
>
>
> On Monday, March 12, 2012 01:05:06 PM you wrote:
>
>
>
>
>
> 73's
>
> jim
>
> ki6njf
>
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# 771. Re: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Yahoo group: hp8924
Date: 2012-03-12 20:39:33 UTC
From: Josh Kittle
Topic: 730  Message: 771

FYI on my mac, many of my archiver tools wouldn't open the multiple zips,
but this one worked

http://wakaba.c3.cx/s/apps/unarchiver.html

'worked for me' - Josh

On Mon, Mar 12, 2012 at 4:38 PM, Josh Kittle <josh.kittle@gmail.com> wrote:

> VLC and Quicktime on the MAC love it when extracted from the zip file
> version. Good to go here.
>
>
>
> On Mon, Mar 12, 2012 at 4:30 PM, James Fosse <jafconsulting@...>wrote:
>
>> **
>>
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>> **
>>
>> I'm uploading it to my web site right now to see if we can get around the
>> download issue. It should be available about 2p.m. pacific time.
>>
>>
>>
>> http://www.vvgmc.org/freda/Hp8920a%20Rf%20Communication%20Set-1.m4v
>>
>>
>>
>> On Monday, March 12, 2012 01:05:06 PM you wrote:
>>
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>>
>>
>> 73's
>>
>> jim
>>
>> ki6njf
>>
>> On Monday, March 12, 2012 01:05:06 PM you wrote:
>>
>>

>>
>> Yeah, I'm having problems now too DL'ing the whole thing without having
>> it quit ¾ of the way through. It's on a shared webhosting service that I've
>> had with 1and1.com for many years. They might be artificially limiting
>> large DL's, as it's not exactly in harmony with their terms of service.
>> Grrr… The only thing I can suggest is to DL the 5 parts and put them
>> together.
>>
>> Another option is for someone to host a torrent. I've DL'ed a few, but
>> never started one, so I'm not fully up on the procedure of getting all the
>> trackers set up correctly.
>>
>> Mike, KD7MG
>>
>>
>>
>> From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf
>> Of Tony Brignole
>> Sent: Monday, March 12, 2012 11:37 AM
>> To: hp8924@yahoogroups.com
>> Subject: Re: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!
>>
>>
>>
>> ☐ I had trouble downloading the whole file and I sent a note to gang.
>>
>>
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>> Both times I downloaded it - it stopped around 850 Meg bytes vs. a file
>> size of 1.12 Gig. I am showing down load speeds of about 750 Kbps. and I
>> am wondering if something is timing out.
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>> I am running Win XP Pro with Comcast. I show download speeds around 25
>> Mbps so don't think bottleneck is on my end.
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>> I have download the pieces but hope single download will work.
>>
>>
>>
>> I have VLC player and can use it, so it is good info. Sounds like I may
>> need to get GOM also.
>>
>>
>>
>> ----- Original Message -----

>>
>> From: Ralph Mowery <ku4pt@...>
>>
>> To: hp8924@yahoogroups.com
>>
>> Sent: Monday, March 12, 2012 11:42 AM
>>
>> Subject: RE: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!
>>
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>> I am using Windows XP and downloaded the VLC player and GOM. They both
>> play the file. Several other programs I have would not play the file.
>>
>>
>>
>> Now I just need time to look at the whole thing.
>>
>>
>>
>> --- On Mon, 3/12/12, Mike, KD7MG <kd7mg@...> wrote:
>>
>>
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>> To: hp8924@yahoogroups.com
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>> OK boys and girls. The file is finally ready for downloading. Many thanks
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>> N9EMS for doing the analog to digital conversion. As was mentioned, the
>> quality is not quite up to today's standards, but is probably not far from
>> what a copy of the original tape could muster.
>>
>> This plays fine on Windows 7 or Vista using the latest Windows Media

>> Player, however, you may find Windows XP machines might need an additional
>> codec. I tested many of the popular add-on “Codec Packs” and they all
>> worked fine. An alternative, is to use a different media player, such as
>> the VLC Player, or (my favorite) the GOM Player.
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>> Ubuntu 11 had no problem playing it with their native Movie Player. It
>> also ran fine using Banshee, SMPlayer, and VLC. Sorry, no MAC VM, so you’re
>> on your own. J
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>> For those with slower DL capabilities, Joe included a set of 5 split
>> files that can be downloaded individually and reconstructed using 7-Zip.
>> The reconstructed file size ends up being slightly larger than the direct
>> download one, but appears to be identical while played. (Not sure what
>> happened there.)
>>
>> OK, here’s the link…
>> http://grovesnet.org/Downloads
>>
>> Cheers,
>> Mike, KD7MG
>>
>>
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>

# 772. Re: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Yahoo group: hp8924
Date: 2012-03-12 21:03:40 UTC
From: James Fosse
Topic: 730  Message: 772

It has finished upload and is here:
http://www.vvgmc.org/freda/Hp8920a%20Rf%20Communication%20Set-1.m4v

jim
On Monday, March 12, 2012 01:30:46 PM you wrote:

I'm uploading it to my web site right now to see if we can get around the download issue. It should be available about 2p.m. pacific time.

http://www.vvgmc.org/freda/Hp8920a%20Rf%20Communication%20Set-1.m4v

On Monday, March 12, 2012 01:05:06 PM you wrote:

73's
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ki6njf

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Another option is for someone to host a torrent. I've DL'ed a few, but never started one, so I'm not fully up on the procedure of getting all the trackers set up correctly.

Mike, KD7MG

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Tony Brignole
Sent: Monday, March 12, 2012 11:37 AM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

☐ I had trouble downloading the whole file and I sent a note to gang.

Both times I downloaded it - it stopped around 850 Meg bytes vs. a file size of 1.12 Gig. I am showing down load speeds of about 750 Kbps. and I am wondering if something is timing out.

I am running Win XP Pro with Comcast. I show download speeds around 25 Mbps so don't think bottleneck is on my end.

I have download the pieces but hope single download will work.

I have VLC player and can use it, so it is good info. Sounds like I may need to get GOM also.

----- Original Message -----
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To: hp8924@yahoogroups.com
Sent: Monday, March 12, 2012 11:42 AM
Subject: RE: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

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I am using Windows XP and downloaded the VLC player and GOM. They both play the file. Several other programs I have would not play the file.

Now I just need time to look at the whole thing.

--- On Mon, 3/12/12, Mike, KD7MG <kd7mg@...> wrote:

From: Mike, KD7MG <kd7mg@...g>
Subject: RE: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!
To: hp8924@yahoogroups.com
Date: Monday, March 12, 2012, 4:02 AM

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For those with slower DL capabilities, Joe included a set of 5 split files that can be downloaded individually and reconstructed using 7-Zip. The reconstructed file size ends up being slightly larger than the direct download one, but appears to be identical while played. (Not sure what happened there.)

OK, here's the link…
http://grovesnet.org/Downloads

Cheers,
Mike, KD7MG

# 773. Re: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Yahoo group: hp8924
Date: 2012-03-12 21:30:29 UTC
From: Tony Brignole
Topic: 730  Message: 773

I am trying download but best speed I can get is about 125Kbps. I have a Comcast fast down load system normally it is 10-12 Mbps. Any ideas. Showing 3 hr download time.

----- Original Message -----
From: James Fosse
To: hp8924@yahoogroups.com
Sent: Monday, March 12, 2012 4:03 PM
Subject: Re: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

It has finished upload and is here:

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Now I just need time to look at the whole thing.

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Subject: RE: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!
To: hp8924@yahoogroups.com
Date: Monday, March 12, 2012, 4:02 AM

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This plays fine on Windows 7 or Vista using the latest Windows Media Player, however, you may find Windows XP machines might need an additional codec. I tested many of the popular add-on “Codec Packs” and they all worked fine. An alternative, is to use a different media player, such as the VLC Player, or (my favorite) the GOM Player.

Ubuntu 11 had no problem playing it with their native Movie Player. It also ran fine using Banshee, SMPlayer, and VLC. Sorry, no MAC VM, so you’re on your own. J

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OK, here’s the link…
http://grovesnet.org/Downloads

Cheers,
Mike, KD7MG

# 774. Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Yahoo group: hp8924
Date: 2012-03-13 01:41:17 UTC
From: n5qs
Topic: 730  Message: 774

I had a friend download it on his T1
I have had no luck getting anything to play it
Have tried newest version of VLC and GOM on Win XP Pro
and have tried win media player on 7
same results on all
If I get it to play will try to convert it to a useful format and post it
Roger

# 775. RE: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Yahoo group: hp8924
Date: 2012-03-13 02:07:25 UTC
From: Mike, KD7MG
Topic: 730  Message: 775

Roger,

If you downloaded the full version and it's not exactly 1,211,762,242 bytes, then the server aborted your DL prematurely. It's been my experience that if this file is incomplete, it won't work in any player.

Mike, KD7MG

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of n5qs
Sent: Monday, March 12, 2012 7:41 PM
To: hp8924@yahoogroups.com
Subject: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

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Roger

# 776. Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Yahoo group: hp8924
Date: 2012-03-13 02:59:56 UTC
From: Colin Matten
Topic: 730  Message: 776

Thanks everyone for converting and posting this video.

I had no problems downloading the file from the below link.

Regards

Colin
VK2KCM

--- In hp8924@yahoogroups.com, James Fosse <jafconsulting@...> wrote:
>
> It has finished upload and is here:
> http://www.vvgmc.org/freda/Hp8920a%20Rf%20Communication%20Set-1.m4v
>

# 777. Re: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Yahoo group: hp8924
Date: 2012-03-13 04:25:48 UTC
From: Rix Seacord
Topic: 730  Message: 777

hi gang
First thanks much to whoever finally got the file done and posted. This box is really amazing once you get into it and play.
I use plain old windows media to play it, version unknown, to play the video with window 7 64.
The download speeds got flaky. From about 500k/min to just over one meg. Took a couple of attempts.
Using FIOS I get speeds up to 3meg/sec from other sites down to a snails pace.
From what I've seen some sites are being throttled or just plain slow from activity.
Thanks again.

Ewing (Rix) Seacord
K2AVP/4/499
eseacord@...

845-628-0892 Home
914-262-9186 Cell
914-233-3886 Skype Notebook

On 3/12/2012 10:07 PM, Mike, KD7MG wrote:
>
> Roger,
>
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> bytes, then the server aborted your DL prematurely. It's been my
> experience that if this file is incomplete, it won't work in any player.
>
> Mike, KD7MG
>
> *From:*hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] *On
> Behalf Of *n5qs
> *Sent:* Monday, March 12, 2012 7:41 PM
> *To:* hp8924@yahoogroups.com
> *Subject:* [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!
>
> I had a friend download it on his T1
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> same results on all
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> Roger
>
>

# 778. Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Yahoo group: hp8924
Date: 2012-03-13 04:27:54 UTC
From: capt6d
Topic: 730  Message: 778

Try and change the file to a mp4 extension, I had to do this and it worked fine.

The orig file would not play and a google on the file extension gave some tips.

--- In hp8924@yahoogroups.com, "n5qs" <ygroup@...> wrote:
>
> I had a friend download it on his T1
> I have had no luck getting anything to play it
> Have tried newest version of VLC and GOM on Win XP Pro
> and have tried win media player on 7
> same results on all
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> Roger
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# 779. Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Yahoo group: hp8924
Date: 2012-03-13 05:13:03 UTC
From: Colin Matten
Topic: 730  Message: 779

My download size was the same as the below when viewed via right click and properties on the file.

File manager shows the size as 1,183,362KB, whereas right click and properties shows it as 1,211,762,242 bytes

--- In hp8924@yahoogroups.com, "Mike, KD7MG" <kd7mg@...> wrote:
>
> Roger,
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> If you downloaded the full version and it's not exactly 1,211,762,242 bytes,
> then the server aborted your DL prematurely. It's been my experience that if
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> Sent: Monday, March 12, 2012 7:41 PM
> To: hp8924@yahoogroups.com
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> Roger
>

# 780. RE: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Yahoo group: hp8924
Date: 2012-03-13 07:15:15 UTC
From: Mike, KD7MG
Topic: 730  Message: 780

If changing the file extension to MP4 doesn't work, you might need to DL it again. It should play in most any version of VLC or GOM.

Slight change of plan. Being as my webhost is not cooperating with the single large file, I removed it. In place, I added another set of smaller pieces to DL. These are from WinRAR, for those familiar with that, and should reassemble using either WinRAR or 7-Zip. Just another option to the original set that Joe created. They can be found here.
http://grovesnet.org/Downloads/

For those interested in getting it in one chunk, Jim has kindly uploaded it to his site here (and it's working much better than mine did).
http://www.vvgmc.org/freda/Hp8920a%20Rf%20Communication%20Set-1.m4v

Mike, KD7MG

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Colin Matten
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# 781. Re: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Yahoo group: hp8924
Date: 2012-03-13 11:58:05 UTC
From: Tony Brignole
Topic: 730  Message: 781

I downloaded GOM on Win XP and it played fine.

----- Original Message -----
From: n5qs
To: hp8924@yahoogroups.com
Sent: Monday, March 12, 2012 8:41 PM
Subject: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

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Roger

# 782. Re: 8294c Prospective Purchase Advice

Yahoo group: hp8924
Date: 2012-03-13 17:05:08 UTC
From: Joel Koltner
Topic: 747  Message: 782

--- In hp8924@yahoogroups.com, "Dawn" <dawntredereding@...> wrote:
> I'm looking to purchase a 8294c, but besides the high power and spec/tracking generator option, I'm hoping to find what an optimum combination and model revision would be. I don't think that I'm going to find a mechanical attenuator version among the lot that are listed on e-bay. The prices look good under $1K USD, but I'm also wondering if it's worth the extra $600-$700 USD to buy one tested and semi-refurbished from a reliable vendor such as Amtronics. I'm sure that many of you have taken both routes and have retrospective opinions based on experience.

My experience with buying test equipment that hasn't been thoroughly tested (just the usual, "well, it powers up!" -- but they allow returns) is that about 10% of such equipment will tend to have some problem, such as being woefully out of cal, some particular output doesn't work, etc.

The 8924C is a very complex box and there's a lot that can go wrong.

If you have the extra time to potentially deal with returns for a not-fully-working item (and note that you'll be looking at ~$100 to ship back an 8924C within the U.S.) -- as well as some familiarity with this sort of equipment to thoroughly test it yourself in the first place (although the 8924C does have some very good built-in self-tests) --, I'd say get the cheaper units and take your chances.

But I don't consider the extra money for a well-tested unit at all poorly spent, either -- especially if you do want something that "just works" in short order or really don't enjoy troubleshooting your own test equipment.

The 8924C I have now came from Amtronix... after I first did get an eBay special that turned out to almost-but-not-quite work.

You might ask Rick at Amtronix if he has any special offers available at present; from time to time he does.

# 783. Re: [hp8924] Re: 8294c Prospective Purchase Advice

Yahoo group: hp8924
Date: 2012-03-13 17:11:50 UTC
From: Josh Kittle
Topic: 747  Message: 783

I can also vouch for Rick - I purchased my 8924c from 'Jim' on ebay - it was ok, but Rick went through it and fixed some minor stuff, did a cleaning and calibration, and gave top notch service for a fair price. Couldn't be happier.

Josh

On Tue, Mar 13, 2012 at 1:05 PM, Joel Koltner <jkoltner@yahoo.com> wrote:

> **
>
>
> --- In hp8924@yahoogroups.com, "Dawn" <dawntredereding@...> wrote:
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>
> The 8924C I have now came from Amtronix... after I first did get an eBay
> special that turned out to almost-but-not-quite work.
>
> You might ask Rick at Amtronix if he has any special offers available at
> present; from time to time he does.
>

>
>

# 784. Re: 8294c Prospective Purchase Advice

Yahoo group: hp8924
Date: 2012-03-14 03:55:06 UTC
From: rfiemiguy
Topic: 747  Message: 784

Back before I bought my personal 8920B, I was shopping for one for the company I worked for. I put out a bid for a specific set of options including the high power option, calibration and certification and a 1 year warranty from the seller. A used unit with these requirements was going for about $10K and that was what was expected. A used unit without the high power, without the certifications and without warranty could be had for much much cheaper. But for the company, having certifications and warranty was desired.

We settled on one of the nationally advertised test equipment resellers here in Florida assuming that with their huge advertising budget, they must be reliable - right? wrong! They could not get the calibration of the power input set correctly and despite the fancy certificate a 60 watt input looked like 120 watts and the unit would scream ALARM! Finally after several trips back and forth we ended up buying a new low end General Dynamics unit. (not as nice).

I ended up buying my personal 8920B from a closeout lot from Ericsson who was closing up cellphone operations in VA. The unit had been rack mounted in a lab environment had some minor CRT burn in, but otherwise very clean and new in every other way. The seller offered a 5 day right of return which gave me the opportunity to see how great it was and perform self checks and loop backs.

There are similar deals available for the 8924 series and the newer 8935. This is the time to shop around and find a nice unit.

--- In hp8924@yahoogroups.com, "Joel Koltner" <jkoltner@...> wrote:
>
> --- In hp8924@yahoogroups.com, "Dawn" <dawntredereding@> wrote:
> > I'm looking to purchase a 8294c, but besides the high power and spec/tracking generator option, I'm hoping to find what an optimum combination and model revision would be. I don't think that I'm going to find a mechanical attenuator version among the lot that are listed on e-bay. The prices look good under $1K USD, but I'm also wondering if it's worth the extra $600-$700 USD to buy one tested and semi-refurbished from a reliable vendor such as Amtronics. I'm sure that many of you have taken both routes and have retrospective opinions based on experience.
>
> My experience with buying test equipment that hasn't been thoroughly tested (just the usual, "well, it powers up!" -- but they allow returns) is that about 10% of such equipment will tend to have some problem, such as being woefully out of cal, some particular output doesn't work, etc.
>
> The 8924C is a very complex box and there's a lot that can go wrong.
>
> If you have the extra time to potentially deal with returns for a not-fully-working item (and note that you'll be looking at ~$100 to ship back an 8924C within the U.S.) -- as well as some familiarity with this sort of equipment to thoroughly test it yourself in the first place (although the 8924C does have some very good built-in self-tests) --, I'd say get the cheaper units and take your chances.

>
> But I don't consider the extra money for a well-tested unit at all poorly spent, either -- especially if you do want something that "just works" in short order or really don't enjoy troubleshooting your own test equipment.
>
> The 8924C I have now came from Amtronix... after I first did get an eBay special that turned out to almost-but-not-quite work.
>
> You might ask Rick at Amtronix if he has any special offers available at present; from time to time he does.
>

# 785. Re: Using the HP 83236B as Spectrum analyzer downconverter

Yahoo group: hp8924
Date: 2012-03-15 06:23:29 UTC
From: Dawn
Topic: 726  Message: 785

Some of the low end spectrum analyzers made by ATTEN and other Chinese OEM's offer a two single band range downconverters listed as "Frequency Extenders" One covers 1-2 gig ATT5000F1 ($200+), the other 2-3 ghz, ATT5000F2 ($300+). I've also seen another labled as u-TEK offered as an accessory with other inexpensive instruments from time to time on E-bay. These don't appear to extend the tracking generator option on these units, just the frequency display.

--- In hp8924@yahoogroups.com, "sv1mne" <sv1mne@...> wrote:
>
> Hi, I am interested in using the HP 83236B as Spectrum analyzer downconverter. Is it possible?
> Any other idea regarding 1000-2000 MHZ and 2000-3000 MHz frequency conversion for the HP8924c?
>
> Best R.
>
> Yiannis
> sv1mne
> Athens/Greece
>
> ps Joe Leikhim posted the same question in HP equipment Group but got no answers.
>
> --- In hp_agilent_equipment@yahoogroups.com, Joe Leikhim <rhyolite@> wrote:
> >
> > Is anyone familiar with the HP 83236B PCS band (freq conversion) adapter
> > for the HP8920B? I have questions as to the utility of this unit to
> > extend the frequency of operation of my HP8920B outside the limited PCS
> > band ranges this unit was meant for. The block diagram shows a rather
> > simple converter without any bandpass filtering. Specifically my questions:
> >
> > Can it be programmed to convert the 30-1000 MHz operation of the HP8920B
> > to 1030-2000 MHz? Can it operate duplex, for example to perform tracking
> > generator operation swept 1030-2000 MHz?
> >
> > Can "script" be written in iBasic to accomplish this? Can it display the
> > frequency of operation resulting from the conversion?
> >
> > Any practical experience is appreciated.
> >
> > --
> > Joe Leikhim
> >
> > Leikhim and Associates
> > Communications Consultants
> > Oviedo, Florida

> >
> > www.Leikhim.com
> >
> > JLeikhim@
> >
> > 407-982-0446
> >
>

# 786. Re: 8294c Prospective Purchase Advice

Yahoo group: hp8924
Date: 2012-03-20 02:50:18 UTC
From: ki0eo@hotmail.com
Topic: 747  Message: 786

I bought a 100 watt upgrade kit from RFE-Toys in WA.
Sent the card and old heatsink back for a refund and waited for a month.
Tried contacting Dan for a status of my refund. After several weeks he finally left me a voice mail stating that he never received the card or attenuator and that I should file a claim with USPS.
If you do any dealings with him I highly suggest delivery confirmations, signatures etc...etc...
Learned my lesson.

Also FWIW I believe Amtronix installs a new CRT in every 8924C sold. New CRT's can be found on Ebay for around $200.

Don

--- In hp8924@yahoogroups.com, "Michael A. Waldron" <lists@...> wrote:
>
> I bought mine from an eBay seller, RFE_Toys in Washington state. Dan was very straightforward and honest about the condition of the analyzer I would receive. He told me he is a former HP employee that worked in their test equipment division in Washington before they relocated it.
>
> My unit arrived very well packed and 100% functional. When it's turned off it's easy to see it spent it's life on the CDMA test screen but once you power it in the burn-in doesn't effect operation at all and the display is easy to read. I peeked inside the case to see if it was full of dust, and the unit appeared to be internally very clean.
>
> Dan did tell me he calibrates his units, but he doesn't provide any sort of certification so if that's important you probably want to go right to Amtronix.
>
> It's likely that if I find a good deal on a new CRT I will purchase it. I'm also likely to get a spare power supply since those seem to be the things that die and I'd like to have this for another 20 years or more. Something else to consider is that with the GBS-8200 is a lot cheaper and easier than a new CRT.
>
> Anyway I was very happy with Dan's product and his prices were able to get me a piece of equipment I had wanted for years and just couldn't afford any other way. I have little doubt I'll be dealing with Amtronix in the future too, and their reputation is impeccable.
>
> I have been learning how to use it 1 function at a time over the last few months and I finally have all the basic stuff down. My next trick is to learn how to tune a duplexer.
>
> -Mike AE0MW
>
>
>
> On 3/11/2012 7:19 AM, Dawn wrote:

> > I'm looking to purchase a 8294c, but besides the high power and spec/tracking generator option, I'm hoping to find what an optimum combination and model revision would be. I don't think that I'm going to find a mechanical attenuator version among the lot that are listed on e-bay. The prices look good under $1K USD, but I'm also wondering if it's worth the extra $600-$700 USD to buy one tested and semi-refurbished from a reliable vendor such as Amtronics. I'm sure that many of you have taken both routes and have retrospective opinions based on experience. Ebay vendors seem to have some very clean looking units with 60/100W inputs and the spectrum analyzer options that claim to pass on board diagnostics and some include the RF tools card.
> >
> > Any advice for someone looking to purchase one? Would most of these pulled from service have significant screen burn/monitor deterioration that would warrant a new crt or replacement monitor module?
> >
> > dwt
> >
> >
>
>
> --
> Michael A. Waldron, AE0MW
> http://www.mikew.org
> PGP: http://www.mikew.org/mypgpkey.txt
>

# 787. SRAM Memory Card

Yahoo group: hp8924
Date: 2012-03-23 10:48:54 UTC
From: abrigno1
Topic: 787  Message: 787

I am thinking about picking up an extra SRAM card for the 8924C. Any good sources and what is maximum size the 8924C can handle. My book says it will read a 4 gig card. I have found several large cards on Ebay and was wondering if there is an upper memory limit size in the 8924.

# 788. Re: SRAM Memory Card

Yahoo group: hp8924
Date: 2012-03-25 04:42:03 UTC
From: willcoele@ameritech.net
Topic: 787  Message: 788

I purchased a Verbatim 1 MB SRAM card on Ebay and it works just fine. I'm only storing the setups and there's more than enough room.

--- In hp8924@yahoogroups.com, "abrigno1" <abrigno@...> wrote:
>
> I am thinking about picking up an extra SRAM card for the 8924C. Any good sources and what is maximum size the 8924C can handle. My book says it will read a 4 gig card. I have found several large cards on Ebay and was wondering if there is an upper memory limit size in the 8924.
>

# 789. Re: [hp8924] Re: SRAM Memory Card

Yahoo group: hp8924
Date: 2012-03-25 04:43:13 UTC
From: Tim
Topic: 787  Message: 789

I picked up an Eiger Labs 2mb SRAM card & put the RF tools program on it - works fine.

Tim

> I purchased a Verbatim 1 MB SRAM card on Ebay and it works just fine.
> I'm only storing the setups and there's more than enough room.
>
> --- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>,
> "abrigno1" <abrigno@...> wrote:
> >
> > I am thinking about picking up an extra SRAM card for the 8924C. Any
> good sources and what is maximum size the 8924C can handle. My book
> says it will read a 4 gig card. I have found several large cards on
> Ebay and was wondering if there is an upper memory limit size in the 8924.
> >
>
>

# 790. Re: 8294c Prospective Purchase Advice

Yahoo group: hp8924
Date: 2012-03-25 06:48:45 UTC
From: jistabout
Topic: 747  Message: 790

Quote:

"I bought a 100 watt upgrade kit from RFE-Toys in WA. Sent the card and old heatsink back for a refund and waited for a month. Tried contacting Dan for a status of my refund. After several weeks he finally left me a voice mail stating that he never received the card or attenuator and that I should file a claim with USPS. If you do any dealings with him I highly suggest delivery confirmations, signatures etc...etc...

Learned my lesson."

==========

Same here except that he ignored every attempt to contact him and I never did receive the $50 refund.

Lesson learned also.

- Darrell/KA7BTV

# 791. Re: SRAM Memory Card

Yahoo group: hp8924
Date: 2012-03-29 21:08:11 UTC
From: wb6dgn
Topic: 787  Message: 791

Can someone please tell me why these miniscule (in capacity) memory cards cost so darn much? They want more for one of these than I paid for a memory upgrade for my laptop and that was several orders of magnitude larger. For some reason I feel as though I should buy a jar of that well known lubricant before I place my order for one of these cards. Much as I'd like to use the RF Tools, I just can't convince myself to waste that much money for that card.
Tom DGN

--- In hp8924@yahoogroups.com, "willcoele@..." <willcoele@...> wrote:
>
> I purchased a Verbatim 1 MB SRAM card on Ebay and it works just fine. I'm only storing the setups and there's more than enough room.
>
> --- In hp8924@yahoogroups.com, "abrigno1" <abrigno@> wrote:
> >
> > I am thinking about picking up an extra SRAM card for the 8924C. Any good sources and what is maximum size the 8924C can handle. My book says it will read a 4 gig card. I have found several large cards on Ebay and was wondering if there is an upper memory limit size in the 8924.
> >
>

# 792. Re: [hp8924] Re: SRAM Memory Card

Yahoo group: hp8924
Date: 2012-03-29 21:49:44 UTC
From: Michael A. Waldron
Topic: 787  Message: 792

Because it's a low-volume production optional accessory for a piece of laboratory grade test equipment that cost tens of thousands of dollars new.

SRAM cards have ALWAYS been comparatively expensive and low volume production but they provide easy to access execute in place memory (they're addressable as if they were RAM from a developer's point of view). My guess is that it was never a priority to move to a different technology because if you were paying for _insert-test-equipment-name-here_ then you didn't really care that the SRAM card cost 5x more than the flash equivalent.

That being said, I'm so far still too cheap to buy one but I'm getting close.

-Mike

On 3/29/2012 4:08 PM, wb6dgn wrote:
>
>
> Can someone please tell me why these miniscule (in capacity) memory cards cost so darn much? They want more for one of these than I paid for a memory upgrade for my laptop and that was several orders of magnitude larger. For some reason I feel as though I should buy a jar of that well known lubricant before I place my order for one of these cards. Much as I'd like to use the RF Tools, I just can't convince myself to waste that much money for that card.
> Tom DGN
>
> --- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>, "willcoele@..." <willcoele@...> wrote:
> >
> > I purchased a Verbatim 1 MB SRAM card on Ebay and it works just fine. I'm only storing the setups and there's more than enough room.
> >
> > --- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>, "abrigno1" <abrigno@> wrote:
> > >
> > > I am thinking about picking up an extra SRAM card for the 8924C. Any good sources and what is maximum size the 8924C can handle. My book says it will read a 4 gig card. I have found several large cards on Ebay and was wondering if there is an upper memory limit size in the 8924.
> > >
> >

--
Michael A. Waldron, AE0MW
http://www.mikew.org
PGP: http://www.mikew.org/mypgpkey.txt

# 793. Re: SRAM Memory Card

Yahoo group: hp8924
Date: 2012-03-30 06:38:08 UTC
From: robert8rpi
Topic: 787  Message: 793

Mike is correct,
The big market for these cards is not test equipment but CNC machines (computer controlled melatworking mills and textile looms etc). The equipment is old but viable and mostly uses dedicated hardware. SRAM cards were ahuge step forward from the punched tape previously used. The user pay to keep them gonig because new ones cost hundreds of thousands of dollars. There is a cottage industry repairing the EL display screens used in these too. To get scale for the cost, just try pricing up 8Mbit of CMOS RAM chips. Even without the packaging into PCMCIA they are expensive. Or you could get a micro and build a simulator that buffered between DRAM and the PCMCIA port.....

Robert G8RPI.

--- In hp8924@yahoogroups.com, "wb6dgn" <wb6dgn@...> wrote:
>
>
>
> Can someone please tell me why these miniscule (in capacity) memory cards cost so darn much? They want more for one of these than I paid for a memory upgrade for my laptop and that was several orders of magnitude larger. For some reason I feel as though I should buy a jar of that well known lubricant before I place my order for one of these cards. Much as I'd like to use the RF Tools, I just can't convince myself to waste that much money for that card.
> Tom DGN
>
> --- In hp8924@yahoogroups.com, "willcoele@" <willcoele@> wrote:
> >
> > I purchased a Verbatim 1 MB SRAM card on Ebay and it works just fine. I'm only storing the setups and there's more than enough room.
> >
> > --- In hp8924@...m, "abrigno1" <abrigno@> wrote:
> > >
> > > I am thinking about picking up an extra SRAM card for the 8924C. Any good sources and what is maximum size the 8924C can handle. My book says it will read a 4 gig card. I have found several large cards on Ebay and was wondering if there is an upper memory limit size in the 8924.
> > >
> >
>

# 794. Re: [hp8924] Re: SRAM Memory Card

Yahoo group: hp8924
Date: 2012-03-30 11:21:11 UTC
From: Tony Brignole
Topic: 787  Message: 794

Same feeling here!!! Guess supply and demand. It is what is.

----- Original Message -----
From: wb6dgn
To: hp8924@yahoogroups.com
Sent: Thursday, March 29, 2012 4:08 PM
Subject: [hp8924] Re: SRAM Memory Card

Can someone please tell me why these miniscule (in capacity) memory cards cost so darn much? They want more for one of these than I paid for a memory upgrade for my laptop and that was several orders of magnitude larger. For some reason I feel as though I should buy a jar of that well known lubricant before I place my order for one of these cards. Much as I'd like to use the RF Tools, I just can't convince myself to waste that much money for that card.
Tom DGN

--- In hp8924@yahoogroups.com, "willcoele@..." <willcoele@...> wrote:
>
> I purchased a Verbatim 1 MB SRAM card on Ebay and it works just fine. I'm only storing the setups and there's more than enough room.
>
> --- In hp8924@yahoogroups.com, "abrigno1" <abrigno@> wrote:
> >
> > I am thinking about picking up an extra SRAM card for the 8924C. Any good sources and what is maximum size the 8924C can handle. My book says it will read a 4 gig card. I have found several large cards on Ebay and was wondering if there is an upper memory limit size in the 8924.
> >
>

# 795. Re: SRAM Memory Card

Yahoo group: hp8924
Date: 2012-03-31 06:00:11 UTC
From: wb6dgn
Topic: 787  Message: 795

Thanks for the replies; informative if not consoling! To add insult to injury, while scanning that infamous auction site yesterday, I saw a Leica brand SRAM PCMCIA card, 2M if I remember correctly, listed for around $570. GOOD GRIEF! I sure hope that was mistyped! That's as bad as the $750 microphone that Agilent wanted to sell me when I checked to see of they had any left in stock. Guess RF Tools will remain on the "wish list" for the foreseeable future. Thanks all,
Tom

--- In hp8924@yahoogroups.com, "Tony Brignole" <abrigno@...> wrote:
>
> Same feeling here!!! Guess supply and demand. It is what is.
>
>
>
> ----- Original Message -----
> From: wb6dgn
> To: hp8924@yahoogroups.com
> Sent: Thursday, March 29, 2012 4:08 PM
> Subject: [hp8924] Re: SRAM Memory Card
>
>
>
>
>
> Can someone please tell me why these miniscule (in capacity) memory cards cost so darn much? They want more for one of these than I paid for a memory upgrade for my laptop and that was several orders of magnitude larger. For some reason I feel as though I should buy a jar of that well known lubricant before I place my order for one of these cards. Much as I'd like to use the RF Tools, I just can't convince myself to waste that much money for that card.
> Tom DGN
>
> --- In hp8924@yahoogroups.com, "willcoele@" <willcoele@> wrote:
> >
> > I purchased a Verbatim 1 MB SRAM card on Ebay and it works just fine. I'm only storing the setups and there's more than enough room.
> >
> > --- In hp8924@yahoogroups.com, "abrigno1" <abrigno@> wrote:
> > >
> > > I am thinking about picking up an extra SRAM card for the 8924C. Any good sources and what is maximum size the 8924C can handle. My book says it will read a 4 gig card. I have found several large cards on Ebay and was wondering if there is an upper memory limit size in the 8924.
> > >
> >

>

# 796. SRAM > FLASH adapter

Yahoo group: hp8924
Date: 2012-03-31 22:10:46 UTC
From: c_day_nz
Topic: 796  Message: 796

I too would love RF tools but can't justify SRAM card prices. I wonder if any brains in the group could come up with a SRAM to FLASH adapter? Perhaps a group project? I haven't had allot to do with interfacing memory to uPs but would have thought such an adaptor should be possible ☐ small PCB that plugs into the 8924 PCMCIA, a pic/atmel to handle communication from SRAM to flash & a front accessible CF, USB, SD or TF socket. Maybe it could be based on something like http://teuthis.com/daisy/index.html - an open source MP3 player which reads file/s from flash. I'm guessing but I'd say allot of FLASH file structure will already be in the code. I'd certainly be more inclined to pay $100 for an adapter kit VS several hundred for an outdated SRAM card. Food for thought. 73s de Chris zl1cvd.

# 797. Re: [hp8924] SRAM > FLASH adapter

Yahoo group: hp8924
Date: 2012-03-31 22:26:17 UTC
From: Tim
Topic: 796  Message: 797

Hi Chris,

Don't know what your budget is, but about 3 months ago, I bought one of these, put RF tools on it, and it works great.

Tim

http://www.ebay.com/itm/NEW-Eiger-2MB-SRAM-PCMCIA-CARD-WARRANTED-/220913294228?pt=LH_DefaultDomain_0&hash=item336f755b94

On 3/31/2012 5:10 PM, c_day_nz wrote:
>
> I too would love RF tools but can't justify SRAM card prices. I wonder
> if any brains in the group could come up with a SRAM to FLASH adapter?
> Perhaps a group project? I haven't had allot to do with interfacing
> memory to uPs but would have thought such an adaptor should be
> possible -- small PCB that plugs into the 8924 PCMCIA, a pic/atmel to
> handle communication from SRAM to flash & a front accessible CF, USB,
> SD or TF socket. Maybe it could be based on something like
> http://teuthis.com/daisy/index.html - an open source MP3 player which
> reads file/s from flash. I'm guessing but I'd say allot of FLASH file
> structure will already be in the code. I'd certainly be more inclined
> to pay $100 for an adapter kit VS several hundred for an outdated SRAM
> card. Food for thought. 73s de Chris zl1cvd.
>
>

# 798. Re: [hp8924] SRAM > FLASH adapter

Yahoo group: hp8924
Date: 2012-03-31 22:43:30 UTC
From: Ralph Mowery
Topic: 796  Message: 798

Maybe we could get someone to volunteer to get a few cards and put the HP RF Tools on them for around $ 70 to $ 100.  I would like to have it, but do not have any way to program the cards.

--- On Sat, 3/31/12, Tim <tim@...> wrote:

From: Tim <tim@...>
Subject: Re: [hp8924] SRAM > FLASH adapter
To: hp8924@yahoogroups.com
Date: Saturday, March 31, 2012, 6:26 PM

Hi Chris,

Don't know what your budget is, but about 3 months ago, I bought one of these, put RF tools on it, and it works great.

Tim

http://www.ebay.com/itm/NEW-Eiger-2MB-SRAM-PCMCIA-CARD-WARRANTED-/220913294228?pt=LH_DefaultDomain_0&hash=item336f755b94

# 799. RE: [hp8924] SRAM > FLASH adapter

Yahoo group: hp8924
Date: 2012-04-01 00:53:10 UTC
From: Thomas Leather
Topic: 796  Message: 799

If you get the card I will program it with RF tools

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Ralph Mowery
Sent: Saturday, March 31, 2012 6:44 PM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] SRAM > FLASH adapter

Maybe we could get someone to volunteer to get a few cards and put the HP RF Tools on them for around $ 70 to $ 100. I would like to have it, but do not have any way to program the cards.

--- On Sat, 3/31/12, Tim <tim@...> wrote:

From: Tim <tim@...>
Subject: Re: [hp8924] SRAM > FLASH adapter
To: hp8924@yahoogroups.com
Date: Saturday, March 31, 2012, 6:26 PM

Hi Chris,

Don't know what your budget is, but about 3 months ago, I bought one of these, put RF tools on it, and it works great.

Tim

http://www.ebay.com/itm/NEW-Eiger-2MB-SRAM-PCMCIA-CARD-WARRANTED-/220913294228?pt=LH_DefaultDomain_0
<http://www.ebay.com/itm/NEW-Eiger-2MB-SRAM-PCMCIA-CARD-WARRANTED-/220913294228?pt=LH_DefaultDomain_0&hash=item336f755b94> &hash=item336f755b94

# 800. Re: [hp8924] SRAM > FLASH adapter

Yahoo group: hp8924
Date: 2012-04-01 07:40:19 UTC
From: Robert Atkinson
Topic: 796  Message: 800

Hi,
In theory a passive compact flash to PCMCIA adaptor would work IF it used the CF card's linear mode. Unfortunatly all the commercail adaptors I've seen force the card into ATA (hard drive simulation) mode. With SRAM cards costing under £50 / $75 I've not put any more effort into it. A PCMCIA prtotype board costs more than the SRAM. I might find a readilly availabe ATA adaptor and try to modify it if there is enough interest.
For those in the UK /EU I can put an HP RF tools image on your SRAM card if you can't do it.

Regards,
Robert.

---
From: c_day_nz <c_day@...>
To: hp8924@yahoogroups.com
Sent: Saturday, 31 March 2012, 23:10
Subject: [hp8924] SRAM > FLASH adapter

I too would love RF tools but can't justify SRAM card prices. I wonder if any brains in the group could come up with a SRAM to FLASH adapter? Perhaps a group project? I haven't had allot to do with interfacing memory to uPs but would have thought such an adaptor should be possible – small PCB that plugs into the 8924 PCMCIA, a pic/atmel to handle communication from SRAM to flash & a front accessible CF, USB, SD or TF socket. Maybe it could be based on something like http://teuthis.com/daisy/index.html - an open source MP3 player which reads file/s from flash. I'm guessing but I'd say allot of FLASH file structure will already be in the code. I'd certainly be more inclined to pay $100 for an adapter kit VS several hundred for an outdated SRAM card. Food for thought. 73s de Chris zl1cvd.

# 801. Re: [hp8924] SRAM > FLASH adapter

Yahoo group: hp8924
Date: 2012-04-01 12:38:22 UTC
From: Tony Brignole
Topic: 796  Message: 801

Tim saw your answer to Chris.

Glad to know. I was headed that way and getting ready to ask question. Price is not cheap, but not intolerable. I found some others in same price range but prefer a new card. Also 2 meg gives some wiggle room.

----- Original Message -----
From: Tim
To: hp8924@yahoogroups.com
Sent: Saturday, March 31, 2012 5:26 PM
Subject: Re: [hp8924] SRAM > FLASH adapter

Hi Chris,

Don't know what your budget is, but about 3 months ago, I bought one of these, put RF tools on it, and it works great.

Tim

http://www.ebay.com/itm/NEW-Eiger-2MB-SRAM-PCMCIA-CARD-WARRANTED-/220913294228?pt=LH_DefaultDomain_0&hash=item336f755b94

On 3/31/2012 5:10 PM, c_day_nz wrote:

I too would love RF tools but can't justify SRAM card prices. I wonder if any brains in the group could come up with a SRAM to FLASH adapter? Perhaps a group project? I haven't had allot to do with interfacing memory to uPs but would have thought such an adaptor should be possible - small PCB that plugs into the 8924 PCMCIA, a pic/atmel to handle communication from SRAM to flash & a front accessible CF, USB, SD or TF socket. Maybe it could be based on something like http://teuthis.com/daisy/index.html - an open source MP3 player which reads file/s from flash. I'm guessing but I'd say allot of FLASH file structure will already be in the code. I'd certainly be more inclined to pay $100 for an adapter kit VS several hundred for an outdated SRAM card. Food for thought. 73s de Chris zl1cvd.

# 802. Re: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Yahoo group: hp8924
Date: 2012-04-04 07:16:44 UTC
From: keith
Topic: 730  Message: 802

I am still having trouble down loading all this file from grovesnet.org. I am after the zip version and have managed to get 2, 3 and 5 but am having no success getting part 1 and part part 4. I am burning data trying time after time and it always bombs out at about 50 to 60%. I have tried the full file version also but that bombs out near the end of the download.
Any ideas how i can get the remaining files.
Keith

From: Mike, KD7MG
Sent: Tuesday, March 13, 2012 8:15 PM
To: hp8924@yahoogroups.com
Subject: RE: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

If changing the file extension to MP4 doesn’t work, you might need to DL it again. It should play in most any version of VLC or GOM.

Slight change of plan. Being as my webhost is not cooperating with the single large file, I removed it. In place, I added another set of smaller pieces to DL. These are from WinRAR, for those familiar with that, and should reassemble using either WinRAR or 7-Zip. Just another option to the original set that Joe created. They can be found here…
http://grovesnet.org/Downloads/

For those interested in getting it in one chunk, Jim has kindly uploaded it to his site here (and it’s working much better than mine did)…
http://www.vvgmc.org/freda/Hp8920a%20Rf%20Communication%20Set-1 .m4v

Mike, KD7MG

# 803. Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Yahoo group: hp8924
Date: 2012-04-04 21:36:18 UTC
From: kb9jzy
Topic: 730  Message: 803

Hi Mike,
I just tried to download the file from the link starting
with http://www.vvgmc.org/freda/
and it was not there
73,

Terry K9HA

--- In hp8924@yahoogroups.com, "keith" <oldmill@...> wrote:
>
> I am still having trouble down loading all this file from grovesnet.org. I am after the zip version and have managed to get 2, 3 and 5 but am having no success getting part 1 and part part 4. I am burning data trying time after time and it always bombs out at about 50 to 60%. I have tried the full file version also but that bombs out near the end of the download.
> Any ideas how i can get the remaining files.
> Keith
>
> From: Mike, KD7MG
> Sent: Tuesday, March 13, 2012 8:15 PM
> To: hp8924@yahoogroups.com
> Subject: RE: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!
>
>
>
> If changing the file extension to MP4 doesnâ□□t work, you might need to DL it again. It should play in most any version of VLC or GOM.
>
> Slight change of plan. Being as my webhost is not cooperating with the single large file, I removed it. In place, I added another set of smaller pieces to DL. These are from WinRAR, for those familiar with that, and should reassemble using either WinRAR or 7-Zip. Just another option to the original set that Joe created. They can be found hereâ□¦
> http://grovesnet.org/Downloads/
>
> For those interested in getting it in one chunk, Jim has kindly uploaded it to his site here (and itâ□□s working much better than mine did)â□¦
> http://www.vvgmc.org/freda/Hp8920a%20Rf%20Communication%20Set-1 .m4v
>
> Mike, KD7MG
>

# 804. Re: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Yahoo group: hp8924
Date: 2012-04-04 22:40:30 UTC
From: James Fosse
Topic: 730  Message: 804

Jim here, the file is still there but the link became munged at some point in the various posts.

use:
<http://www.vvgmc.org/freda/Hp8920a Rf Communication Set-1.m4v>
or
http://goo.gl/BQC5f

On Wednesday, April 04, 2012 09:36:18 PM you wrote:
> Hi Mike,
> I just tried to download the file from the link starting
> with http://www.vvgmc.org/freda/
> and it was not there
> 73,
>
> Terry K9HA
>
>[snip]

note the link below has had a space added between the 1 and the period which breaks the link.

> > http://www.vvgmc.org/freda/Hp8920a%20Rf%20Communication%20Set-1 .m4v
> >
> > Mike, KD7MG
>

--
73s
jim
KI6NJF

# 805. .MV4 Windows Media Player Codec Pack

Yahoo group: hp8924
Date: 2012-04-05 22:01:07 UTC
From: Dawn
Topic: 805  Message: 805

I'm still running XP and followed the recommendation on Microsoft's XP support forum to download the Media Player Codec Pack from CNET's download website:

http://download.cnet.com/Media-Player-Codec-Pack/3000-13632_4-10749065.html?part=dl-&subj=dl&tag=button

During the installation it asks you to install a yahoo toolbar and trial version of a DVD utility which I unchecked.

The video plays just the way it is without renaming the .MV4 extension using the XP Windows Media Player. No need to install another player and seamless integration with the existing WM player.

# 806. HELP NEEDED

Yahoo group: hp8924
Date: 2012-04-07 01:36:28 UTC
From: Doug
Topic: 806  Message: 806

My first post to the group and I am looking for some help. I have come across a 8924c salvaged out of a Hp cell phone test bay. The unit has V.05.30 loaded so the boot up screen says. It also has a HP 83230a PCMCIA 64K SRAM card. It was last calibrated by Agilent in 2004. Everything else on the bay was calibrated at the same time by Agilent.

I do not know how to operate the unit. I haven't used sweep gear for some thirty years or so.. I do have a MINI VNA which does a good job with some filters and coax.

In an article written by Agilent ( I think ) they say they set the 8924c machines that they service or sell to hams up as a 8920B unit before they ship them out and then save the configuration to memory. This sets up the AF analyzer, TX and RX screens which are ready on boot up. This is just about all I would need. The question is, how does one go about setting these up. I have no documentation at all!! The original owners threw it all out.

As the unit is now, on boot up it appears to go through all the self tests without any failures. I think I should be able to put the SRAM card into one of my old laptops and read it. Haven't tried it yet.

Any help would be grateful appreciated.

Doug VE5DA

# 807. Re: [hp8924] HELP NEEDED

Yahoo group: hp8924
Date: 2012-04-07 02:37:07 UTC
From: James Fosse
Topic: 806  Message: 807

Doug,
goto:
<http://groups.yahoo.com/group/hp8924/files/>

and log in with your yahoo groups user name and password. Download

08924-90038.pdf that's the user manual.

08924-90048.pdf is the Condensed Programming Reference Manual (if you want to program it in HP basic)

also download

8920A_B Application Handbook.pdf that's the "how to" book for general RF use once you figure out how to get out of the CDMA mode.

What is the first function you want to do?

cheers,
jim
KI6NJF
73s

On Friday, April 06, 2012 07:36:28 PM you wrote:
> My first post to the group and I am looking for some help. I have come
> across a 8924c salvaged out of a Hp cell phone test bay. The unit has
> V.05.30 loaded so the boot up screen says. It also has a HP 83230a PCMCIA
> 64K SRAM card. It was last calibrated by Agilent in 2004. Everything
> else on the bay was calibrated at the same time by Agilent.
>
> I do not know how to operate the unit. I haven't used sweep gear for some
> thirty years or so.. I do have a MINI VNA which does a good job with some
> filters and coax.
>
> In an article written by Agilent ( I think ) they say they set the 8924c
> machines that they service or sell to hams up as a 8920B unit before they
> ship them out and then save the configuration to memory. This sets up the
> AF analyzer, TX and RX screens which are ready on boot up. This is just
> about all I would need. The question is, how does one go about setting
> these up. I have no documentation at all!! The original owners threw it all
> out.
>
> As the unit is now, on boot up it appears to go through all the self tests
> without any failures. I think I should be able to put the SRAM card into
> one of my old laptops and read it. Haven't tried it yet.
>
> Any help would be grateful appreciated.

>
> Doug VE5DA
>
>

# 808. Re: [hp8924] HELP NEEDED

Yahoo group: hp8924
Date: 2012-04-07 03:07:39 UTC
From: Ralph Mowery
Topic: 806  Message: 808

Go here for starters:

http://www.amtronix.com/8924cqs.htm

While there look around for more info on the 8924C.

While it is not exectally like the 8920 sets, go to the Agilent site and download the manuals for the 8920B.  Some of the buttons are in differant places and may be labled differant, but you should get a good idea.  The 8920C and 8920B are very similar to each other except the 8920B does not do the cell phones.

Also look on the page and especially the links at the bottom.  It will tell you how to make the 8924 turn on in the noncell phone mode.

http://www.amtronix.com/hp8924c60.htm

Most of the manual for the 8924C is mainly about the cell phones and not of much use to most people now.

The 8924C will work way below 30 MHz ( I think to about 400 KHz), but the input and output levels start to fall off below 30 mhz, but are close to being on at 10 mhz, below 10 mhz, the levels start to fall off.

The card is not needed, but can be used to store test proceduers.  That card slot can also be used to change the software in the test set.  YOu have a $ 49,000 pice of equipment when it was new.

Plan on spending about a week learning how to use it, as it will do almost anything you will need.

--- On Fri, 4/6/12, Doug <appld@...> wrote:

From: Doug <appld@...>
Subject: [hp8924] HELP NEEDED
To: hp8924@yahoogroups.com
Date: Friday, April 6, 2012, 9:36 PM

My first post to the group and I am looking for some help. I have come
across a 8924c salvaged out of a Hp cell phone test bay. The unit has
V.05.30 loaded so the boot up screen says. It also has a HP 83230a PCMCIA
64K SRAM card. It was last calibrated by Agilent in 2004. Everything
else on the bay was calibrated at the same time by Agilent.

I do not know how to operate the unit. I haven't used sweep gear for some
thirty years or so.. I do have a MINI VNA which does a good job with some
filters and coax.

In an article written by Agilent ( I think ) they say they set the 8924c machines that they service or sell to hams up as a 8920B unit before they ship them out and then save the configuration to memory. This sets up the AF analyzer, TX and RX screens which are ready on boot up. This is just about all I would need. The question is, how does one go about setting these up. I have no documentation at all!! The original owners threw it all out.

As the unit is now, on boot up it appears to go through all the self tests without any failures. I think I should be able to put the SRAM card into one of my old laptops and read it. Haven't tried it yet.

Any help would be grateful appreciated.

Doug VE5DA

# 809. Re: [hp8924] HELP NEEDED

Yahoo group: hp8924
Date: 2012-04-07 11:17:19 UTC
From: Tony Brignole
Topic: 806  Message: 809

Doug, the 8924 is a formidable uint and it took me about 6 months to really get comfortable with it.

Go to Amtronix and they have some pages with some good info. One is how to set the unit up so it comes on in the 8920 mode. I set the 8920 us as mode and use the recall so it comes on in 8924 mode then I go to recall and hit enter and it goes into 8920 mode.

Watch you're power level. Some units do high power some are only good for 3 watts. It should have a yellow tag on the N connector stating power. You can buy and retrofit higher power options if you only have a 3 watt unit. The high power adpators are not too expensive.

You're in the right place for help here and there are some guys far more knowledgable than me who can help you.

----- Original Message -----
From: Doug
To: hp8924@yahoogroups.com
Sent: Friday, April 06, 2012 8:36 PM
Subject: [hp8924] HELP NEEDED

My first post to the group and I am looking for some help. I have come across a 8924c salvaged out of a Hp cell phone test bay. The unit has V.05.30 loaded so the boot up screen says. It also has a HP 83230a PCMCIA 64K SRAM card. It was last calibrated by Agilent in 2004. Everything else on the bay was calibrated at the same time by Agilent.

I do not know how to operate the unit. I haven't used sweep gear for some thirty years or so.. I do have a MINI VNA which does a good job with some filters and coax.

In an article written by Agilent ( I think ) they say they set the 8924c machines that they service or sell to hams up as a 8920B unit before they ship them out and then save the configuration to memory. This sets up the AF analyzer, TX and RX screens which are ready on boot up. This is just about all I would need. The question is, how does one go about setting these up. I have no documentation at all!! The original owners threw it all out.

As the unit is now, on boot up it appears to go through all the self tests without any failures. I think I should be able to put the SRAM card into one of my old laptops and read it. Haven't tried it yet.

Any help would be grateful appreciated.

Doug VE5DA

# 810. Re: [hp8924] HELP NEEDED

Yahoo group: hp8924
Date: 2012-04-07 14:55:57 UTC
From: Doug
Topic: 806  Message: 810

At 05:17 AM 07/04/2012, you wrote:

>Doug, the 8924 is a formidable uint and it took me about 6 months to
>really get comfortable with it.
>
>Go to Amtronix and they have some pages with some good info. One is
>how to set the unit up so it comes on in the 8920 mode. I set the
>8920 us as mode and use the recall so it comes on in 8924 mode then
>I go to recall and hit enter and it goes into 8920 mode.
>
>Watch you're power level. Some units do high power some are only
>good for 3 watts. It should have a yellow tag on the N connector
>stating power. You can buy and retrofit higher power options if you
>only have a 3 watt unit. The high power adpators are not too expensive.
>
>You're in the right place for help here and there are some guys far
>more knowledgable than me who can help you.
>
>---------

Thanks Tony. I will do that. The unit is the 3 watt one and I am
aware of the restriction.

Doug VE5DA

# 811. Re: [hp8924] HELP NEEDED

Yahoo group: hp8924
Date: 2012-04-07 15:07:25 UTC
From: Doug
Topic: 806  Message: 811

At 09:07 PM 06/04/2012, you wrote:

Go here for starters:

http://www.amtronix.com/8924cqs.htm

While there look around for more info on the 8924C.

While it is not exectally like the 8920 sets, go to the Agilent site and download the manuals for the 8920B. Some of the buttons are in differant places and may be labled differant, but you should get a good idea. The 8920C and 8920B are very similar to each other except the 8920B does not do the cell phones.

Also look on the page and especially the links at the bottom. It will tell you how to make the 8924 turn on in the noncell phone mode.

http://www.amtronix.com/hp8924c60.htm

Most of the manual for the 8924C is mainly about the cell phones and not of much use to most people now.

The 8924C will work way below 30 MHz ( I think to about 400 KHz), but the input and output levels start to fall off below 30 mhz, but are close to being on at 10 mhz, below 10 mhz, the levels start to fall off.

The card is not needed, but can be used to store test proceduers. That card slot can also be used to change the software in the test set. YOu have a $ 49,000 pice of equipment when it was new.

Plan on spending about a week learning how to use it, as it will do almost anything you will need.

---
Thanks Ralph. I am looking forward to using the thing for sweeping filters etc and as a spectrum analyzer. To heavy to
take to a repeater site. Besides I can hardly lift the thing. It will take me a while until I can get it operational
for my use. Other then a little screen burn in, it looks to be in pretty good shape.

Thanks
Doug VE5DA

# 812. Re: [hp8924] HELP NEEDED

Yahoo group: hp8924
Date: 2012-04-07 19:34:48 UTC
From: Robert Atkinson
Topic: 806  Message: 812

Hi Doug,
Welcome to the 8924C club! To help with the screen burn you can use a converter (Gonbes 8200) on the composite output to drive a standard VGA monitor. Search the archive for video.

Robert G8RPI

---
From: Doug <appld@...>
To: hp8924@yahoogroups.com
Sent: Saturday, 7 April 2012, 16:07
Subject: Re: [hp8924] HELP NEEDED

At 09:07 PM 06/04/2012, you wrote:

Go here for starters:
>
>http://www.amtronix.com/8924cqs.htm
>
>While there look around for more info on the 8924C.
>
>While it is not exectally like the 8920 sets, go to the Agilent site and download the manuals for the 8920B.  Some of the buttons are in differant places and may be labled differant, but you should get a good idea.  The 8920C and 8920B are very similar to each other except the 8920B does not do the cell phones.
>
>Also look on the page and especially the links at the bottom.  It will tell you how to make the 8924 turn on in the noncell phone mode.
>
>
>http://www.amtronix.com/hp8924c60.htm
>
>
>Most of the manual for the 8924C is mainly about the cell phones and not of much use to most people now.
>
>The 8924C will work way below 30 MHz ( I think to about 400 KHz), but the input and output levels start to fall off below 30 mhz, but are close to being on at 10 mhz, below 10 mhz, the levels start to fall off.
>
>The card is not needed, but can be used to store test proceduers. That card slot can also be used to change the software in the test set.  YOu have a $ 49,000 pice of equipment when it was new.

>
>Plan on spending about a week learning how to use it, as it will do
almost anything you will need.
> --------
Thanks Ralph. I am looking forward to using the thing for sweeping
filters etc and as a spectrum analyzer. To heavy to
take to a repeater site. Besides I can hardly lift the thing. It will
take me a while until I can get it operational
for my use. Other then a little screen burn in, it looks to be in pretty
good shape.

Thanks
Doug VE5DA

# 813. Re: [hp8924] HELP NEEDED

Yahoo group: hp8924
Date: 2012-04-07 20:13:11 UTC
From: Doug
Topic: 806  Message: 813

At 01:34 PM 07/04/2012, you wrote:

>Hi Doug,
>Welcome to the 8924C club! To help with the screen burn you can use
>a converter (Gonbes 8200) on the composite output to drive a
>standard VGA monitor. Search the archive for video.
>
>Robert G8RPI
---
Ok Robert. I think I saw that when I was going through the archive.
Never heard of a Gonbes 8200 or seen one..
Is it a box or a card?? A little googling might show something...
Thanks very much. It will be nice to have it going. I have had lots
of help on here.

Doug VE5DA

# 814. Re: [hp8924] HELP NEEDED

Yahoo group: hp8924
Date: 2012-04-07 20:32:18 UTC
From: Robert Atkinson
Topic: 806  Message: 814

Hi Doug,
The GBS8200 (or GBS8220 with two VGA outputs) is a board desigined for use in old video games, old pc based machine tools with CGA/EGA and the like. They are available on ebay, http://www.ebay.co.uk/itm/CGA-EGA-RGB-VGA-GAME-video-converter-board-1-VGA-output-game-convert-GBS8200-/180833084570?pt=LH_DefaultDomain_0&hash=item2a1a7de49a or search item 180833084570. You have to add a sync separator (comparator or an LM1881). You can buy bxed units but they cost 5 times as much as the board.

---
From: Doug <appld@...>
To: hp8924@yahoogroups.com
Sent: Saturday, 7 April 2012, 21:13
Subject: Re: [hp8924] HELP NEEDED

At 01:34 PM 07/04/2012, you wrote:

>Hi Doug,
>Welcome to the 8924C club! To help with the screen burn you can use
>a converter (Gonbes 8200) on the composite output to drive a
>standard VGA monitor. Search the archive for video.
>
>Robert G8RPI
---
Ok Robert. I think I saw that when I was going through the archive.
Never heard of a Gonbes 8200 or seen one..
Is it a box or a card?? A little googling might show something...
Thanks very much. It will be nice to have it going. I have had lots
of help on here.

Doug VE5DA

# 815. Re: [hp8924] HELP NEEDED

Yahoo group: hp8924
Date: 2012-04-07 20:53:46 UTC
From: Ralph Mowery
Topic: 806  Message: 815

Doug, you may want to look at this on youtube.  While it is for a differant modle, they are similar in the way they work.  There are several very good vidios on some of the things that can be done with what you have.

http://www.youtube.com/watch?v=NStmXEJIe-w&feature=relmfu

--- On Sat, 4/7/12, Doug <appld@...> wrote:

---
Ok Robert. I think I saw that when I was going through the archive.
Never heard of a Gonbes 8200 or seen one..
Is it a box or a card?? A little googling might show something...
Thanks very much. It will be nice to have it going. I have had lots
of help on here.

Doug VE5DA

# 816. Serial Port

Yahoo group: hp8924
Date: 2012-04-08 22:35:45 UTC
From: Doug
Topic: 816  Message: 816

The serial port has a telephone type jack on it. The cable I have has it wired to a 15pin connector that normally plugs into the PCS unit. That has been tossed aside. I take it that a custom cable can be made and then plug that into a standard 232 port. I noticed that there is a binary file posted that is newer then what I have in my unit. I am assuming that it has to be loaded via the serial port with unknown software.

I am making progress. I have the "powron" programmed in and finally found it. I can generate and open my repeater, so after supper its the spectrum analyzer and the duplex port to be tackled.

Thanks
Doug VE5DA

# 817. Re: [hp8924] Serial Port

Yahoo group: hp8924
Date: 2012-04-08 22:52:47 UTC
From: Ralph Mowery
Topic: 816  Message: 817

You can go to the files section in the 8924 Yahoo group and download:

bts_sw.zip

If you know what you are doing I guess that it is useful for other things, but I use it to do a print screen of the 8924 to a laptop.

There is a wiring diagram in some of the files.  YOu can make the cable out of  what looks like a 6 pin (think that is the number) plug that looks similar to a  4 wire telephone connector  and the serial plug.  I would call it a db9, but someone pointed out that there is no db9, but many people call it that name.

Someone did a good job of converting a vidio file that takes about half an hour to download.  It is for the 8920, but much of the information will apply to the 8924.  I wish I knew where the file was at so I could point it to you.  Maybe someone else will.

--- On Sun, 4/8/12, Doug <appld@...> wrote:

From: Doug <appld@sasktel.net>
Subject: [hp8924] Serial Port
To: hp8924@yahoogroups.com
Date: Sunday, April 8, 2012, 6:35 PM

The serial port has a telephone type jack on it. The cable I have has
it wired to a 15pin
connector that normally plugs into the PCS unit. That has been tossed
aside. I take it
that a custom cable can be made and then plug that into a standard
232 port. I noticed
that there is a binary file posted that is newer then what I have in
my unit. I am
assuming that it has to be loaded via the serial port with unknown software.

I am making progress. I have the "powron" programmed in and finally
found it. I can
generate and open my repeater, so after supper its the spectrum
analyzer and the
duplex port to be tackled.

Thanks
Doug VE5DA

# 818. RE: [hp8924] Serial Port

Yahoo group: hp8924
Date: 2012-04-08 23:35:06 UTC
From: Mike, KD7MG
Topic: 816  Message: 818

This link works for the video training file.

http://goo.gl/BQC5f

Mike

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of
Ralph Mowery
Sent: Sunday, April 08, 2012 4:53 PM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Serial Port

You can go to the files section in the 8924 Yahoo group and download:

bts_sw.zip
<http://f1.grp.yahoofs.com/v1/YAqCT5UM8JallvWgGnxzcdTco2EO7mV00u-DtSKI7NdHY2
OCqkD4YWjNrhl24kNC5j1fMNAaqK5q1Ibfp7hRcg7yeuQ/bts_sw.zip>

If you know what you are doing I guess that it is useful for other things,
but I use it to do a print screen of the 8924 to a laptop.

There is a wiring diagram in some of the files. YOu can make the cable out
of what looks like a 6 pin (think that is the number) plug that looks
similar to a 4 wire telephone connector and the serial plug. I would call
it a db9, but someone pointed out that there is no db9, but many people call
it that name.

Someone did a good job of converting a vidio file that takes about half an
hour to download. It is for the 8920, but much of the information will
apply to the 8924. I wish I knew where the file was at so I could point it
to you. Maybe someone else will.

--- On Sun, 4/8/12, Doug <appld@...> wrote:

From: Doug <appld@...>
Subject: [hp8924] Serial Port
To: hp8924@yahoogroups.com
Date: Sunday, April 8, 2012, 6:35 PM

The serial port has a telephone type jack on it. The cable I have has
it wired to a 15pin
connector that normally plugs into the PCS unit. That has been tossed
aside. I take it
that a custom cable can be made and then plug that into a standard
232 port. I noticed
that there is a binary file posted that is newer then what I have in
my unit. I am
assuming that it has to be loaded via the serial port with unknown software.

I am making progress. I have the "powron" programmed in and finally found it. I can
generate and open my repeater, so after supper its the spectrum analyzer and the
duplex port to be tackled.

Thanks
Doug VE5DA

# 819. Re: [hp8924] Serial Port

Yahoo group: hp8924
Date: 2012-04-08 23:38:21 UTC
From: Tim
Topic: 816  Message: 819

Mike,

When I click on the link, it just goes away. Is it loading?

If it is, is there anyway that I can tell how far along it is?
(nice to see activity to know it hasn't gone into the weeds).

thanks,

Tim

This link works for the video training file…

http://goo.gl/BQC5f

Mike

·_,___

# 820. Re: [hp8924] Serial Port

Yahoo group: hp8924
Date: 2012-04-08 23:45:54 UTC
From: Ralph Mowery
Topic: 816  Message: 820

I am using Internet Explorer and if you click on the link, it pops up a screen asking if you want to download the file. If you tell it to download the file, you get a screenthat shows the progress.  It is about 1.1 GB long.  Like I said even with a cable modem, it will take about half an hour or more.

I have not taken time to look at the whole thing, but the parts I have looked at helps a lot.

--- On Sun, 4/8/12, Tim <tim@...> wrote:

From: Tim <tim@...>
Subject: Re: [hp8924] Serial Port
To: hp8924@yahoogroups.com
Date: Sunday, April 8, 2012, 7:38 PM

Mike,

When I click on the link, it just goes away.  Is it loading?

If it is, is there anyway that I can tell how far along it is?
(nice to see activity to know it hasn't gone into the weeds).

thanks,

Tim

This link works for the video training file…

http://goo.gl/BQC5f

Mike

·_,___

# 821. Re: [hp8924] Serial Port

Yahoo group: hp8924
Date: 2012-04-09 00:32:01 UTC
From: Doug
Topic: 816  Message: 821

At 04:52 PM 08/04/2012, you wrote:

You can go to the files section in the 8924 Yahoo group and download:

bts_sw.zip (http://f1.grp.yahoofs.com/v1/YAqCT5UM8JallvWgGnxzcdTco2EO7mV00u-DtSKI7NdHY2OCqkD4YWjNrhl24kNC5j1fMNAaqK5q1Ibfp7hRcg7yeuQ/bts_sw.zip)
If you know what you are doing I guess that it is useful for other things, but I use it to do a print screen of the 8924 to a laptop.

There is a wiring diagram in some of the files. YOu can make the cable out of what looks like a 6 pin (think that is the number) plug that looks similar to a 4 wire telephone connector and the serial plug. I would call it a db9, but someone pointed out that there is no db9, but many people call it that name.

Someone did a good job of converting a vidio file that takes about half an hour to download. It is for the 8920, but much of the information will apply to the 8924. I wish I knew where the file was at so I could point it to you. Maybe someone else will.

---
I already have bts-sw.zip downloaded. And the video. The video wouldn't play but I think maybe I didn't have the right
codec. Can you save the screen into a .jpeg or bmp??. Would be interesting.

Thanks
Doug VE5DA

# 822. Re: [hp8924] Serial Port

Yahoo group: hp8924
Date: 2012-04-09 00:56:02 UTC
From: Tim
Topic: 816  Message: 822

Got it going. Had been trying it on my wife's Windows 7 box,
and it just 'hung' - no dialog box or anything.

Got it going in my office (XP & Firefox).

Thanks!

Tim

On 4/8/2012 6:45 PM, Ralph Mowery wrote:
>
> I am using Internet Explorer and if you click on the link, it pops up
> a screen asking if you want to download the file. If you tell it to
> download the file, you get a screenthat shows the progress. It is
> about 1.1 GB long. Like I said even with a cable modem, it will take
> about half an hour or more.
> I have not taken time to look at the whole thing, but the parts I have
> looked at helps a lot.
>
>
> --- On *Sun, 4/8/12, Tim /<tim@...>/* wrote:
>
>
> From: Tim <tim@...>
> Subject: Re: [hp8924] Serial Port
> To: hp8924@yahoogroups.com
> Date: Sunday, April 8, 2012, 7:38 PM
>
>
>
> Mike,
>
> When I click on the link, it just goes away. Is it loading?
>
> If it is, is there anyway that I can tell how far along it is?
> (nice to see activity to know it hasn't gone into the weeds).
>
> thanks,
>
> Tim
>
>
>> This link works for the video training file…
>>
>> http://goo.gl/BQC5f
>>

```
>> Mike
>>
>> ._,___
>
>
>
```

# 823. RE: [hp8924] Serial Port

Yahoo group: hp8924
Date: 2012-04-09 01:25:51 UTC
From: Mike, KD7MG
Topic: 816  Message: 823

Doug,

IF you are using Windows XP, then most any of the addon codec packs available will work.
The alternative is to use a player like VLC or GOM.

Vista, 7, and Ubuntu have no problems playing it with their respective built-in players.

More information about the video can be found in the following threads...

http://groups.yahoo.com/group/hp8924/message/670
http://groups.yahoo.com/group/hp8924/message/730

Mike

> I already have bts-sw.zip downloaded. And the video. The video wouldn't play but I think maybe I didn't have the right
> codec. Can you save the screen into a .jpeg or bmp??. Would be interesting.
>
> Thanks
> Doug VE5DA

# 824. Re: Serial Port

Yahoo group: hp8924
Date: 2012-04-10 14:11:44 UTC
From: willcoele@ameritech.net
Topic: 816  Message: 824

I uploaded a file called "8924 control codes" it has the serial port wiring and a brief description. Using the BTS software or a terminal program, I mapped control codes that can control it remotely.

Jack WA9FVP
Willco Electronics

--- In hp8924@yahoogroups.com, Doug <appld@...> wrote:
>
> The serial port has a telephone type jack on it. The cable I have has
> it wired to a 15pin
> connector that normally plugs into the PCS unit. That has been tossed
> aside. I take it
> that a custom cable can be made and then plug that into a standard
> 232 port. I noticed
> that there is a binary file posted that is newer then what I have in
> my unit. I am
> assuming that it has to be loaded via the serial port with unknown software.
>
> I am making progress. I have the "powron" programmed in and finally
> found it. I can
> generate and open my repeater, so after supper its the spectrum
> analyzer and the
> duplex port to be tackled.
>
> Thanks
> Doug VE5DA
>

# 825. Re: [hp8924] Re: Serial Port

Yahoo group: hp8924
Date: 2012-04-10 14:35:30 UTC
From: Doug
Topic: 816  Message: 825

At 08:11 AM 10/04/2012, you wrote:
>I uploaded a file called "8924 control codes" it has the serial port
>wiring and a brief description. Using the BTS software or a
>terminal program, I mapped control codes that can control it remotely.
---
Yes, I have those Jack. I am going to break out both ports to
separate DE9 connectors for future use.

Thanks
Doug VE5DA

# 826. RE: [hp8924] SRAM > FLASH adapter

Yahoo group: hp8924
Date: 2012-04-10 22:46:38 UTC
From: Ralph Mowery
Topic: 796  Message: 826

Thomas i have a card that should work.  If the offer to put the HP RF Tools on the cars is still open, let me know where to send it.

Thanks.

--- On Sat, 3/31/12, Thomas Leather <tleather1@...> wrote:

From: Thomas Leather <tleather1@...>
Subject: RE: [hp8924] SRAM > FLASH adapter
To: hp8924@yahoogroups.com
Date: Saturday, March 31, 2012, 8:53 PM

If you get the card I will program it with RF tools

# 827. Measuring Coax wavelengths with RLB

Yahoo group: hp8924
Date: 2012-04-11 04:18:36 UTC
From: Tim
Topic: 816  Message: 827

Hi Folks,

I'm working on a phasing network for a couple of antennas, and was wondering if I could measure the 1/2 and 1/4 wavelength lengths of coax in the following way:

Hook up the RLB as normal. The DUT side goes to a PL259 'Tee" connector. One side of the T goes to a 50 ohm load, and the other side goes to the 'unknown' length of coax.

I'm doing this, but the lengths calculated vs measured vary a bunch.

For example: Some Mil RG-214 (not Mil 'type'), I physically measure 100 inches.

Using the 8924 & RLB, the 1/4 wave frequency is 37.5mHz.

37.5 mHz 'should' have a length of 78.7 inches.

ideas?

Thanks,

Tim W5FN

# 828. Re: [hp8924] Measuring Coax wavelengths with RLB

Yahoo group: hp8924
Date: 2012-04-11 10:13:50 UTC
From: keith
Topic: 816  Message: 828

Sounds like you have a half wave taking into account the velocity factor of about .66

From: Tim
Sent: Wednesday, April 11, 2012 4:18 PM
To: hp8924@yahoogroups.com
Subject: [hp8924] Measuring Coax wavelengths with RLB

Hi Folks,

I'm working on a phasing network for a couple of antennas, and was wondering if I could measure the 1/2 and 1/4 wavelength lengths of coax in the following way:

Hook up the RLB as normal. The DUT side goes to a PL259 'Tee" connector. One side of the T goes to a 50 ohm load, and the other side goes to the 'unknown' length of coax.

I'm doing this, but the lengths calculated vs measured vary a bunch.

For example: Some Mil RG-214 (not Mil 'type'), I physically measure 100 inches.

Using the 8924 & RLB, the 1/4 wave frequency is 37.5mHz.

37.5 mHz 'should' have a length of 78.7 inches.

ideas?

Thanks,

Tim W5FN

# 829. Re: [hp8924] Measuring Coax wavelengths with RLB

Yahoo group: hp8924
Date: 2012-04-11 10:44:08 UTC
From: keith
Topic: 816  Message: 829

Sounds like you have a half wave taking into account the velocity factor of about .66

I would think that if your configuration is as I understand it the 1/2 wave would present a high impedance at resonance across the 50 ohm load assuming it was an open circuit piece of coax.
Either side of this the impedance would be lower effecting the return loss.

From: Tim
Sent: Wednesday, April 11, 2012 4:18 PM
To: hp8924@yahoogroups.com
Subject: [hp8924] Measuring Coax wavelengths with RLB

Hi Folks,

I'm working on a phasing network for a couple of antennas, and was wondering if I could measure the 1/2 and 1/4 wavelength lengths of coax in the following way:

Hook up the RLB as normal. The DUT side goes to a PL259 'Tee" connector. One side of the T goes to a 50 ohm load, and the other side goes to the 'unknown' length of coax.

I'm doing this, but the lengths calculated vs measured vary a bunch.

For example: Some Mil RG-214 (not Mil 'type'), I physically measure 100 inches.

Using the 8924 & RLB, the 1/4 wave frequency is 37.5mHz.

37.5 mHz 'should' have a length of 78.7 inches.

ideas?

Thanks,

Tim W5FN

# 830. Re: [hp8924] Measuring Coax wavelengths with RLB

Yahoo group: hp8924
Date: 2012-04-11 15:35:46 UTC
From: Tim
Topic: 816  Message: 830
Attachments: 1 described; binary payloads are missing from this source WARC

Looks like I had the RLB hooked up wrong.

I've changed things around, and it appears to be doing
just what I want. (I don't have access to a VNA).

Now, physically measuring the RG-214, I get 100 inches.
Per the notches, I get 19.4 mHz as the 1st notch. This
tells me that the electrical length is 152 inches.

152 x 0.66 = 100.3" Pretty close!

Not sure if the picture will make it, but here goes:

If the pix doesn't make it, I'll put it up under files.

Tim

# 831. Re: [hp8924] Measuring Coax wavelengths with RLB

Yahoo group: hp8924
Date: 2012-04-11 16:17:28 UTC
From: Tim
Topic: 816  Message: 831
Attachments: 1 described; binary payloads are missing from this source WARC

Well, turns out that wasn't quite right.

The original diagram only gave 1/4 and 3/4 wave
nulls. This drawing (based upon two different
applications of the RLB) should give 1/4, 1/2, 3/4
and full wave nulls.

Somebody please chime in and let me know
what you think.

(still looking for a painless way to make 1/4 wave
and 1/2 wave stubs - without a VNA).

Thanks!

Tim

# 832. Re: [hp8924] Measuring Coax wavelengths with RLB

Yahoo group: hp8924
Date: 2012-04-11 19:44:56 UTC
From: Robert Atkinson
Topic: 816  Message: 832
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Tim,
Try using just the Tee (or a reistive power divder) between the TG and SA with the stub on the side arm, no return loss bridge. You should see the suck out just fine.

Robert G8RPI

---
From: Tim <tim@...>
To: hp8924@yahoogroups.com
Cc: xytar@yahoo.com
Sent: Wednesday, 11 April 2012, 17:17
Subject: Re: [hp8924] Measuring Coax wavelengths with RLB

Well, turns out that wasn't quite right.

The original diagram only gave 1/4 and 3/4 wave
nulls.  This drawing (based upon two different
applications of the RLB) should give 1/4, 1/2, 3/4
and full wave nulls.

Somebody please chime in and let me know
what you think.

(still looking for a painless way to make 1/4 wave
and 1/2 wave stubs - without a VNA).

Thanks!

Tim

# 833. Re: [hp8924] Measuring Coax wavelengths with RLB

Yahoo group: hp8924
Date: 2012-04-11 19:47:52 UTC
From: Tim
Topic: 816  Message: 833

Hey Robert,

Yes, I just found that out while playing.

Thanks for reducing things!! :-)

Tim W5FN

# 834. Re: HELP NEEDED

Yahoo group: hp8924
Date: 2012-04-13 00:52:09 UTC
From: aa1pi
Topic: 806  Message: 834

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Hi Doug,
> The GBS8200 (or GBS8220 with two VGA outputs) is a board desigined for use in old video games, old pc based machine tools with CGA/EGA and the like. They are available on ebay, http://www.ebay.co.uk/itm/CGA-EGA-RGB-VGA-GAME-video-converter-board-1-VGA-output-game-convert-GBS8200-/180833084570?pt=LH_DefaultDomain_0&hash=item2a1a7de49a or search item 180833084570. You have to add a sync separator (comparator or an LM1881). You can buy bxed units but they cost 5 times as much as the board

Hello Robert,
I have ordered the GBS8200. I am not sure how to connect the comparator or an LM1881 or if it goes on the input or output I have never worked with vidio, any help would be great.
Thanks Robert aa1pi

# 835. Re: Serial Port

Yahoo group: hp8924
Date: 2012-04-13 07:52:38 UTC
From: Dawn
Topic: 816  Message: 835

There's someone on Flea-bay that's selling brand new,original HP packaged RJ serial to DB9 cables with a ferrite core for $15. Had I not ruined a perfectly good serial cable and crimped on a connector, I would have rathered picking up one of these.

http://www.ebay.com/itm/HP-Cable-8920A-8920B-8922-8924C-Agilent-NEW-/250602872434?pt=LH_DefaultDomain_0&hash=item3a59185e72

--- In hp8924@yahoogroups.com, Doug <appld@...> wrote:
>
> The serial port has a telephone type jack on it. The cable I have has
> it wired to a 15pin
> connector that normally plugs into the PCS unit. That has been tossed
> aside. I take it
> that a custom cable can be made and then plug that into a standard
> 232 port. I noticed
> that there is a binary file posted that is newer then what I have in
> my unit. I am
> assuming that it has to be loaded via the serial port with unknown software.
>
> I am making progress. I have the "powron" programmed in and finally
> found it. I can
> generate and open my repeater, so after supper its the spectrum
> analyzer and the
> duplex port to be tackled.
>
> Thanks
> Doug VE5DA
>

# 836. Inexpensive RLB Source

Yahoo group: hp8924
Date: 2012-04-13 08:12:31 UTC
From: Dawn
Topic: 836  Message: 836

I found this source from a mention on another board.

http://preciserf.com/shop/

They have two RLBs that appear to be a good value if you're not going to work above 500mhz. One has an internal 50 ohm termination, the other is a 4 port that lets you use other references, but's limited to 250mhz. For around $100, they look like a good starter bridges if you can't afford a high end one and don't have any need for the upper end of the spectrum. The cases look like stock Pomona die cast boxes, so they probably are heavily built.

# 837. Re: [hp8924] Re: Serial Port

Yahoo group: hp8924
Date: 2012-04-13 16:19:55 UTC
From: Doug
Topic: 816  Message: 837

At 01:52 AM 13/04/2012, you wrote:
>There's someone on Flea-bay that's selling brand new,original HP
>packaged RJ serial to DB9 cables with a ferrite core for $15. Had I
>not ruined a perfectly good serial cable and crimped on a connector,
>I would have rathered picking up one of these.
>
>
>http://www.ebay.com/itm/HP-Cable-8920A-8920B-8922-8924C-Agilent-NEW-/250602872434?pt=LH_DefaultDomain_0&hash=item3a59185e72
---
I think that is the standard cable that comes with the Cell
Maintenance package. Mine had that on. I'll just get a
mating 15 pin D shell and break out both ports...

Doug VE5DA

# 838. Re: [hp8924] Inexpensive RLB Source

Yahoo group: hp8924
Date: 2012-04-13 20:50:31 UTC
From: plefever@cpinternet.com
Topic: 836  Message: 838

Seems pricey to me if all you need is a simple directional coupler.

How about a MiniCircuits ZFDC-10-21 for $55? Good to 1Ghz too.

I have one of these are its quite well made.

73

Phil, KB0NES

> I found this source from a mention on another board.
>
>
>
> They have two RLBs that appear to be a good value if
> you're not going to work above 500mhz. One has an internal
> 50 ohm termination, the other is a 4 port that lets you
> use other references, but's limited to 250mhz. For around
> $100, they look like a good starter bridges if you can't
> afford a high end one and don't have any need for the
> upper end of the spectrum. The cases look like stock
> Pomona die cast boxes, so they probably are heavily built.
>
>
>

# 839. Re: RF input/output Problem!!

Yahoo group: hp8924
Date: 2012-04-14 03:54:50 UTC
From: trjohn2049
Topic: 707  Message: 839

--- In hp8924@yahoogroups.com, "trjohn2049" <trjohn2049@...> wrote:
>
> The A-23 module, Yes I will take the unit apart again and make some tests on the OP's you listed. And yes it will take some time to take
> the A-23 module out again with all 50+ srcews.
>
> I just can'nt see why sometimes the unit works fine with no problems
> and acts up with the RFinput error messages .I guess this is just one of the intermit problems HP 8924C can have.
> This time I going to go over everything from A-Z from checking all the
> Caps,modules ETC!!! and clean out all the dust it collects.
> I will post some files and info when I get to know the moniter better.
> I wlll update you later on what the problem was.
> I want to say thanks for helping me on my trouble shooting,and for all the info/files you posted.
> Terry W0TRJ Aitkin, MN.
>
> --- In hp8924@yahoogroups.com, "willcoele@" <willcoele@> wrote:
> >
> > The problem could be a bad op-amp on the A23-2 "Electronic Input Section". I had a similar problem with my 8924C and I had to remove the monitor assembly to get the A23 aluminum casting. There are about 50 screws to remove the cover. If my memory serves me I replaced U2 an OP-467GS. You can get it from Digikey but they are expensive. I used a TL084.
> >
> > I didn't have a schematic at the time but I was able to connect the monitor and the A23 to run the unit. I measured voltages on the op-amps and found one where the output was stuck to the rail but I don't remember if it was the positive or negative rail.
> >
> >
> > --- In hp8924@yahoogroups.com, "trjohn2049" <trjohn2049@> wrote:
> > >
> > > Warmed up unit for 30 mins Rom V A.06.33 60Watt Rf input version
> > >
> > > I have a problem with the RF input/output A23 module
> > > At power up it shows all self test passed.
> > >
> > > After that a warbling sound is heard and then goes off some times,and displays the message (Reduce RF power input)
> > >
> > > When zeroing the RF power, A Message comes on the top of the screen
> > > and it says (Voltage out of bound. Remove RF power before zeroing).
> > > I did all the service tests and it fails in the (RFDIAGS3) RF input
> > > test and stop at the *** RF Dectector (low power),no signal ***.
> > >

> > > Some times the unit will work and pass all the RF test and will zero
> > > the RF power.
> > > My next step is to check power supply for problems
> > > upload Cal data for 14db 60watt Atten from Sram card
> > > Maybe inop A-23 or A27 Refer module?
> > > Any ideas from the group? Anyone have the same problem.
> > > Terry
> > >
> >
**** Found the problem, replaced all 3 OP-467GS in the A-23 module
and now up and running 100%. *****
Thanks for all the input from the group. 13 April 2012

# 840. Return Loss Bridges

Yahoo group: hp8924
Date: 2012-04-18 22:56:35 UTC
From: dapw2000
Topic: 840  Message: 840

Hi All:

Just a thought for your consideration:

Many of us who own these great test sets are in the market for an RLB to complete our arsenal. One of the places to acquire same is eBay.

Rather than bid against each other (unknowingly) and forcing the price way up, how about we post a note on this forum with the eBay item number when we make a bid and the rest of us agree not to bid on the item? First guy to post on a given RLB gets the green light.

Am I dreaming in technicolor or does this notion have some traction?

73,

Dave
VE7MQ.

# 841. Re: [hp8924] Return Loss Bridges

Yahoo group: hp8924
Date: 2012-04-18 23:22:00 UTC
From: Colin Matten
Topic: 840  Message: 841

Whilst we all like to get things cheap, colluding like this at a traditional auction (In Australia anyway) is illegal. It isn't fair on the seller either :-(

On Thu, Apr 19, 2012 at 8:56 AM, dapw2000 <dpowellwilliams@shaw.ca> wrote:

> **
>
>
> Hi All:
>
> Just a thought for your consideration:
>
> Many of us who own these great test sets are in the market for an RLB to
> complete our arsenal. One of the places to acquire same is eBay.
>
> Rather than bid against each other (unknowingly) and forcing the price way
> up, how about we post a note on this forum with the eBay item number when
> we make a bid and the rest of us agree not to bid on the item? First guy to
> post on a given RLB gets the green light.
>
> Am I dreaming in technicolor or does this notion have some traction?
>
> 73,
>
> Dave
> VE7MQ.
>
>
>

# 842. Re: [hp8924] Return Loss Bridges

Yahoo group: hp8924
Date: 2012-04-19 00:01:46 UTC
From: Ralph Mowery
Topic: 840  Message: 842

One that is good enough for ham use is a Mini-Circuits ZFDC-20-5.
Covers up to 2000 MHz.  Should be under $ 100.

--- On Wed, 4/18/12, dapw2000 <dpowellwilliams@...> wrote:

From: dapw2000 <dpowellwilliams@shaw.ca>
Subject: [hp8924] Return Loss Bridges
To: hp8924@yahoogroups.com
Date: Wednesday, April 18, 2012, 6:56 PM

Hi All:

Just a thought for your consideration:

Many of us who own these great test sets are in the market for an RLB to complete our arsenal. One of the places to acquire same is eBay.

Rather than bid against each other (unknowingly) and forcing the price way up, how about we post a note on this forum with the eBay item number when we make a bid and the rest of us agree not to bid on the item? First guy to post on a given RLB gets the green light.

Am I dreaming in technicolor or does this notion have some traction?

73,

Dave
VE7MQ.

# 843. Re: RF input/output Problem!!

Yahoo group: hp8924
Date: 2012-04-19 00:04:23 UTC
From: willcoele@ameritech.net
Topic: 707  Message: 843

That's good new!

Jack WA9FVP
Willco Electronics

> **** Found the problem, replaced all 3 OP-467GS in the A-23 module
> and now up and running 100%. *****
> Thanks for all the input from the group. 13 April 2012
>

# 844. Re: [hp8924] Return Loss Bridges

Yahoo group: hp8924
Date: 2012-04-19 01:19:15 UTC
From: Colin Matten
Topic: 840  Message: 844

I have a ZEDC-15, have a look on eBay there are a few available for sub $30 AUD. I pretty sure mine came from the guy in China selling them for around $24 AUD delivered.

Regards

Colin
VK2KCM

On Thu, Apr 19, 2012 at 10:01 AM, Ralph Mowery <ku4pt@...> wrote:

> **
>
>
>
> One that is good enough for ham use is a Mini-Circuits ZFDC-20-5.
> Covers up to 2000 MHz. Should be under $ 100.
>
>
>
> --- On *Wed, 4/18/12, dapw2000 <dpowellwilliams@...>* wrote:
>
>
> From: dapw2000 <dpowellwilliams@...>
> Subject: [hp8924] Return Loss Bridges
> To: hp8924@yahoogroups.com
> Date: Wednesday, April 18, 2012, 6:56 PM
>
>
> Hi All:
>
> Just a thought for your consideration:
>
> Many of us who own these great test sets are in the market for an RLB to
> complete our arsenal. One of the places to acquire same is eBay.
>
> Rather than bid against each other (unknowingly) and forcing the price way
> up, how about we post a note on this forum with the eBay item number when
> we make a bid and the rest of us agree not to bid on the item? First guy to
> post on a given RLB gets the green light.
>
> Am I dreaming in technicolor or does this notion have some traction?
>
> 73,
>
> Dave

> VE7MQ.
>
>
>

# 845. Re: Return Loss Bridges

Yahoo group: hp8924
Date: 2012-04-19 04:30:02 UTC
From: Jim Kossow
Topic: 840  Message: 845

I bought two band new Mini-Circuit RLDB zdf-20-5 ??? with N connectors for less than $20 USD shipped on ebay. They work fine for what I do.

Being a seller on ebay I don't care for the notion of people getting to together a keeping the price down, if it is more than you want to spend don't buy it or wait for another. One think about ebay there will always be another. And yes you have to cough up money sometimes!

But that is my 2 pieces of copper and zinc

Later Jim

W7OWC

# 846. Re: [hp8924] Return Loss Bridges

Yahoo group: hp8924
Date: 2012-04-19 06:34:41 UTC
From: Robert Atkinson
Topic: 840  Message: 846

I don't think the ebay collusion would work at several levels.
There are other options.
1 Make your own. This is not too difficult. a couple of resistors. some minature coax and a bunch of ferrite beads or a small rf transformer (and careful construction). There are lots of designs on the web. As noted below, we may not need utimate performance.
2 Use a hybrid power divider/coupler (mini-circuits etc). These have the same basic layout as a RLB. Many of us have them already and they cost less.

Most of use don't need multioctave sweeps so 2 or 3 units to cover areas of interest will give better performance. for instance sweep your hybrid s and just use them were the isolation is best.
Using RF tools with an 8924C gives us a big advantage as we can get automatic calibration. Thus ultimate flatness and accuracy is not so important as in some applications.
Robert.

---
From: dapw2000 <dpowellwilliams@...>
To: hp8924@yahoogroups.com
Sent: Wednesday, 18 April 2012, 23:56
Subject: [hp8924] Return Loss Bridges

Hi All:

Just a thought for your consideration:

Many of us who own these great test sets are in the market for an RLB to complete our arsenal. One of the places to acquire same is eBay.

Rather than bid against each other (unknowingly) and forcing the price way up, how about we post a note on this forum with the eBay item number when we make a bid and the rest of us agree not to bid on the item? First guy to post on a given RLB gets the green light.

Am I dreaming in technicolor or does this notion have some traction?

73,

Dave
VE7MQ.

# 847. Re: [hp8924] Return Loss Bridges

Yahoo group: hp8924
Date: 2012-04-19 14:58:36 UTC
From: Doug
Topic: 840  Message: 847

At 12:34 AM 19/04/2012, you wrote:

>I don't think the ebay collusion would work at several levels.
>There are other options.
>1 Make your own. This is not too difficult. a couple of resistors.
>some minature coax and a bunch of ferrite beads or a small rf
>transformer (and careful construction). There are lots of designs on
>the web. As noted below, we may not need utimate performance.
>2 Use a hybrid power divider/coupler (mini-circuits etc). These have
>the same basic layout as a RLB. Many of us have them already and
>they cost less.
>
>Most of use don't need multioctave sweeps so 2 or 3 units to cover
>areas of interest will give better performance. for instance sweep
>your hybrid s and just use them were the isolation is best.
>Using RF tools with an 8924C gives us a big advantage as we can get
>automatic calibration. Thus ultimate flatness and accuracy is not so
>important as in some applications.
---
Not all of us have access to 'RF TOOLS'. It would be nice but.....
Good ideas tho...

Doug VE5DA

# 848. Re: Return Loss Bridges

Yahoo group: hp8924
Date: 2012-04-19 15:46:59 UTC
From: Joe Leikhim
Topic: 840  Message: 848

I bought one of these from seller kitmanlaw2008 for a $30 offer. I haven't tried it yet, looks promising, well packaged. Ask them for the hook up instructions as the ports are unmarked. May be months before I try it due to work. I would be interested in feedback if someone tries this.

http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=220840287930&ssPageName=ADME:L:OU:US:1123

--
Joe Leikhim

Leikhim and Associates
Communications Consultants
Oviedo, Florida

www.Leikhim.com

JLeikhim@...

407-982-0446

# 849. Re: Return Loss Bridges

Yahoo group: hp8924
Date: 2012-04-20 01:32:14 UTC
From: wb6dgn
Topic: 840  Message: 849

DREAM ON! You obviously have infinitely greater faith in humankind than I do (fully unjustified, I might add). EVEN if the members of this list complied with an agreement such as this (which I seriously doubt), what's to stop the lurker from profiting from the information posted here and leaving the members of this list sitting empty handed (albeit a bit richer - NOT completely bad, I guess)? Either way a bad deal for all.
Tom

--- In hp8924@yahoogroups.com, "dapw2000" <dpowellwilliams@...> wrote:
>
> Hi All:
>
> Just a thought for your consideration:
>
> Many of us who own these great test sets are in the market for an RLB to complete our arsenal. One of the places to acquire same is eBay.
>
> Rather than bid against each other (unknowingly) and forcing the price way up, how about we post a note on this forum with the eBay item number when we make a bid and the rest of us agree not to bid on the item? First guy to post on a given RLB gets the green light.
>
> Am I dreaming in technicolor or does this notion have some traction?
>
> 73,
>
> Dave
> VE7MQ.
>

# 850. Re: Return Loss Bridges

Yahoo group: hp8924
Date: 2012-04-20 02:15:07 UTC
From: wb6dgn
Topic: 840  Message: 850

"Whilst we all like to get things cheap, colluding like this at a traditional auction (In Australia anyway) is illegal. It isn't fair on the seller either :-("

Here I draw the line. After my last "experience" trying to buy the necessary accessories for my two newly acquired Spectras, I'm afraid that this is a bad time to plead "fairness for sellers" to me. EVERYTHING I found listed that was worth looking at had at least one, and sometimes more, key parts missing. Now, I'm NOT talking about parts that were sold as extra items by the manufacturer. I'm talking about things like the locking clip for the plug that plugs into the control head, the speaker mounting bracket and thumbscrews, etc, etc. Things that were supplied as PART OF THE ITEM when purchased from the factory. And, interestingly, there was ALWAYS SOMEBODY ELSE that "just happened" to be listing the "missing items" at the same time! HOW FORTUNATE FOR THE BUYER!!! So, as I noted in the previous thread, while I know that this plan wouldn't work, it has ABSOLUTELY NOTHING to do with ANY concern for an auction seller. Fairness is a TWO WAY STREET!
Tom
--- In hp8924@yahoogroups.com, Colin Matten <vk2kcm@...> wrote:
>
> Whilst we all like to get things cheap, colluding like this at a
> traditional auction (In Australia anyway) is illegal. It isn't fair on the
> seller either :-(
>
>
>
> On Thu, Apr 19, 2012 at 8:56 AM, dapw2000 <dpowellwilliams@...> wrote:
>
> > **
> >
> >
> > Hi All:
> >
> > Just a thought for your consideration:
> >
> > Many of us who own these great test sets are in the market for an RLB to
> > complete our arsenal. One of the places to acquire same is eBay.
> >
> > Rather than bid against each other (unknowingly) and forcing the price way
> > up, how about we post a note on this forum with the eBay item number when
> > we make a bid and the rest of us agree not to bid on the item? First guy to
> > post on a given RLB gets the green light.
> >
> > Am I dreaming in technicolor or does this notion have some traction?
> >
> > 73,
> >
> > Dave

> > VE7MQ.
> >
> >
> >
>

# 851. Return Loss Bridge

Yahoo group: hp8924
Date: 2012-04-21 22:22:54 UTC
From: Tim Campbell
Topic: 851  Message: 851

I am planning to purchase an RLB and RF tools software for use with my 8924c. I am looking for input on the different RLB's out there. I am considering the RLB-E from precise RF : http://preciserf.com/shop/rlb-e-return-loss-bridge-2-500mhz-external-reference/ at $105.00

or the Amtronix SW1200N: http://www.amtronix.com/sw1200n.htm at $189.00.

The usuable range seems to be more on the amtronix model. The model above from precise RF uses an external reference load so I could use it for 50 and 75 ohm cable assemblies.

Does anyone have experience with both of the above units or can you comment on one of them? Other suggestions welcome too.

Thanks.
Tim KB2MFS

# 852. Re: [hp8924] Return Loss Bridge

Yahoo group: hp8924
Date: 2012-04-22 08:44:30 UTC
From: Robert Atkinson
Topic: 851  Message: 852

Hi,
I've no experience of either unit but have looked at both. I'd go for the Amtronix version. It has a range that is applicable to the 8924C and comes with individual performance information. The size tells a lot. I feel that the RLB-E is a little too compact to have a good layout. The option of an external load is a mixed blessing. It is an other variable and as the RLB-E appears to have balance trimmer capacitors on the reference and DUT ports its possible that you will not get best performance unless you use a similar load to the one it was adjusted with. Also you will not great performance with a 75R load as the internal power splitter resistors will still be sized for 50R.  Why not buy the 50R Amtronix and build your own 75R bridge? You could then include 50 to 75R resistive matching with 6db loss on the Source and Detector ports to match the 8924C port  impedance and replace the 6dB attenuators recommended by HP. With an 8924C, a couple of attenuators, 50R (75R) terminaton, short/open and some leads you have all the tools you need to check the performance of your homebrew RLB.

HTH,
Robert G8RPI.

---
From: Tim Campbell <kb2mfs@gmail.com>
To: hp8924@yahoogroups.com
Sent: Saturday, 21 April 2012, 23:22
Subject: [hp8924] Return Loss Bridge

I am planning to purchase an RLB and RF tools software for use with my 8924c.  I am looking for input on the different RLB's out there.  I am considering the RLB-E from precise RF : http://preciserf.com/shop/rlb-e-return-loss-bridge-2-500mhz-external-reference/  at $105.00

or the Amtronix SW1200N: http://www.amtronix.com/sw1200n.htm  at $189.00.

The usuable range seems to be more on the amtronix model.  The model above from precise RF uses an external reference load so I could use it for 50 and 75 ohm cable assemblies.

Does anyone have experience with both of the above units or can you comment on one of them? Other suggestions welcome too.

Thanks.
Tim KB2MFS

# 853. Someone to program HP RF Tools to a card

Yahoo group: hp8924
Date: 2012-04-22 19:47:40 UTC
From: Ralph
Topic: 853  Message: 853

A while back someone offered to program a card with RF Tools if I got a card. I now have a card but seem to have lost who did the offer to program it. Can someone put the program on a card if I send one ?

# 854. Re: [hp8924] Someone to program HP RF Tools to a card

Yahoo group: hp8924
Date: 2012-04-22 20:50:29 UTC
From: Robert Atkinson
Topic: 853  Message: 854

Hi,
I can do it, but I'm in the UK so it would cheaper postage if you can find someone closer.

Regards,
Robert.

---
From: Ralph <ku4pt@...>
To: hp8924@yahoogroups.com
Sent: Sunday, 22 April 2012, 20:47
Subject: [hp8924] Someone to program HP RF Tools to a card

A while back someone offered to program a card with RF Tools if I got a card. I now have a card but seem to have lost who did the offer to program it. Can someone put the program on a card if I send one ?

# 855. Re: [hp8924] HP 8920

Yahoo group: hp8924
Date: 2012-04-22 21:46:40 UTC
From: Ralph S. Turk
Topic: 853  Message: 855

Does any one know of a HP 8920 forum?

Ralph, W7HSG

# 856. Re: HP 8920

Yahoo group: hp8924
Date: 2012-04-22 22:01:32 UTC
From: k6png
Topic: 853  Message: 856

--- In hp8924@yahoogroups.com, "Ralph S. Turk" <w7hsg@...> wrote:
>
> Does any one know of a HP 8920 forum?
>
>
> Ralph, W7HSG
>
Ralph,
I dont know of a 8920 specific forum. you are more than welcome to
ask your questions here since the 8920 is extremely similar to the 8924.

Ray
K6PNG
List Owner.

# 857. RE: [hp8924] Re: HP 8920

Yahoo group: hp8924
Date: 2012-04-22 22:50:59 UTC
From: EC Welch
Topic: 853  Message: 857
Attachments: 2 described; binary payloads are missing from this source WARC

Ray,

Does this offer extend to HP8935/AgilentE6380A?

EC

WA7E

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of
k6png
Sent: Sunday, April 22, 2012 3:02 PM
To: hp8924@yahoogroups.com
Subject: [hp8924] Re: HP 8920

--- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com> , "Ralph S.
Turk" <w7hsg@...> wrote:
>
> Does any one know of a HP 8920 forum?
>
>
> Ralph, W7HSG
>
Ralph,
I dont know of a 8920 specific forum. you are more than welcome to
ask your questions here since the 8920 is extremely similar to the 8924.

Ray
K6PNG
List Owner.

# 858. Re: [hp8924] Re: HP 8920

Yahoo group: hp8924
Date: 2012-04-22 22:53:59 UTC
From: Ralph S. Turk
Topic: 853  Message: 858

Ray
Thank you for your offer. I was also going to ask about the 8935 but
Wa7E beat me to it. I also have a 8935 and 8924
Again thanks
Ralph

----- Original Message -----
From: "k6png" <irlp3358@...>
To: hp8924@yahoogroups.com
Sent: Sunday, April 22, 2012 3:01:32 PM
Subject: [hp8924] Re: HP 8920

--- In hp8924@yahoogroups.com , "Ralph S. Turk" <w7hsg@...> wrote:
>
> Does any one know of a HP 8920 forum?
>
>
> Ralph, W7HSG
>
Ralph,
I dont know of a 8920 specific forum. you are more than welcome to
ask your questions here since the 8920 is extremely similar to the 8924.

Ray
K6PNG
List Owner.

# 859. Re: HP 8920

Yahoo group: hp8924
Date: 2012-04-23 00:39:50 UTC
From: k6png
Topic: 853  Message: 859

Sure, I don't have a problem discussing any of the extremely similar HP/Agilent models.
That being said please keep the topics to the "extremely similar models".

Ray
K6PNG
List Owner

--- In hp8924@yahoogroups.com, "EC Welch" <ecw2f@...> wrote:
>
> Ray,
>
> Does this offer extend to HP8935/AgilentE6380A?
>
> EC
>
> WA7E
>
>
>
> From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of
> k6png
> Sent: Sunday, April 22, 2012 3:02 PM
> To: hp8924@yahoogroups.com
> Subject: [hp8924] Re: HP 8920
>
>
>
>
>
>
>
> --- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com> , "Ralph S.
> Turk" <w7hsg@> wrote:
> >
> > Does any one know of a HP 8920 forum?
> >
> >
> > Ralph, W7HSG
> >
> Ralph,
> I dont know of a 8920 specific forum. you are more than welcome to
> ask your questions here since the 8920 is extremely similar to the 8924.
>
> Ray
> K6PNG

> List Owner.
>

# 860. Re: HP 8920

Yahoo group: hp8924
Date: 2012-04-23 02:30:29 UTC
From: radioman762
Topic: 853  Message: 860

The HP8935 units are indeed "extremely similar." I have one, as well as a 8924C. Many of the modules are identical. This has helped me in trouble-shooting by permitting substitution of a known-good module from a working unit into one that had a problem. From the part numbers on the modules, many originated in the 8920, even if they are also found in a 8924 or 8935.

Some of the modules that are not identical can be swapped between the models for the purpose of upgrades or adding features. For example, you can replace the 30 / 230 kHz receiver in the 8935 with the 15 / 230 kHz receiver used in the 8920 and 8924. Similarly, the 8935 frequency reference standard can be upgraded if desired.

While it is certainly up to the List Owner to determine what discussion topics are appropriate, it looks like that all of the 89XX models are very similar and that the underlying hardware is the same. The differences are in the firmware, the mix of modules, and sometimes the display type.

Thus, it will be very helpful for all of the 89XX models to be accepted as legitimate topics for discussion. It would also be helpful to create an area in the "Files" section where manuals for the various models could be posted. There is a lot of overlap and sometimes features common to more than one model are not fully documented in all manuals.

# 861. Re: [hp8924] Someone to program HP RF Tools to a card

Yahoo group: hp8924
Date: 2012-04-23 03:34:30 UTC
From: Doug
Topic: 853  Message: 861

At 02:50 PM 22/04/2012, you wrote:

>Hi,
>I can do it, but I'm in the UK so it would cheaper postage if you
>can find someone closer.
>
>Regards,
>Robert.
---
Robert I have a HP 83230a PCMCIA card with nothing on it. The
batteries dead. What I was
wondering is what size card is required for HP RF TOOLs. This card is
a 64kb card.
I haven't figured out how to use the test set but from just playing
with it I can see
where the RF TOOLS program would be a big help..

Thanks

Doug VE5DA

# 862. Re: [hp8924] Someone to program HP RF Tools to a card

Yahoo group: hp8924
Date: 2012-04-23 03:48:01 UTC
From: Tim
Topic: 853  Message: 862

Hi Doug,

I believe that it is 'normally' put on a 512k card,
but mine is on a 2mb.

I don't think it will fit onto a 64k card.

Tim W5FN

On 4/22/2012 10:34 PM, Doug wrote:
>
> At 02:50 PM 22/04/2012, you wrote:
>
> >Hi,
> >I can do it, but I'm in the UK so it would cheaper postage if you
> >can find someone closer.
> >
> >Regards,
> >Robert.
> -------
> Robert I have a HP 83230a PCMCIA card with nothing on it. The
> batteries dead. What I was
> wondering is what size card is required for HP RF TOOLs. This card is
> a 64kb card.
> I haven't figured out how to use the test set but from just playing
> with it I can see
> where the RF TOOLS program would be a big help..
>
> Thanks
>
> Doug VE5DA
>
>

# 863. Re: [hp8924] Someone to program HP RF Tools to a card

Yahoo group: hp8924
Date: 2012-04-23 05:51:05 UTC
From: Doug
Topic: 853  Message: 863

At 09:48 PM 22/04/2012, you wrote:

Hi Doug,

I believe that it is 'normally' put on a 512k card,
but mine is on a 2mb.

I don't think it will fit onto a 64k card.

Tim W5FN
---
Thanks Tim. 512k cards will be hard to come by.

Doug VE5DA

# 864. Re: [hp8924] Someone to program HP RF Tools to a card

Yahoo group: hp8924
Date: 2012-04-23 06:25:29 UTC
From: Robert Atkinson
Topic: 853  Message: 864

Hi Doug,
Yes, you need at least 512K. I can supply a PCMCIA PROM card with HP RF Tools  (11807E Opt 100 ver 02.00) on it for 40 UK Pounds including shipping. Please contact me off list if interested.

Robert.

---
From: Doug <appld@...>
To: hp8924@yahoogroups.com
Sent: Monday, 23 April 2012, 6:51
Subject: Re: [hp8924] Someone to program HP RF Tools to a card

At 09:48 PM 22/04/2012, you wrote:

Hi Doug,
>
>I believe that it is 'normally' put on a 512k card,
>but mine is on a 2mb.
>
>I don't think it will fit onto a 64k card.
>
>Tim W5FN----------
Thanks Tim. 512k cards will be hard to come by.

Doug VE5DA

# 865. Re: [hp8924] Re: HP 8920

Yahoo group: hp8924
Date: 2012-04-23 16:16:51 UTC
From: Ralph S. Turk
Topic: 853  Message: 865

Greeting All
I have been following the thread in reference to RF Tools for the 8924. I have a 8924 in Montana at my son's home N7XVF. It has RF Tools on a PCMIA card.
I am looking for a card for the 8920 A. It uses a card similar in style to the PCMIA but I believe it is called a Epson Card.
Does anyone have any information.

Ralph, W7HSG

# 866. Re: HP 8920

Yahoo group: hp8924
Date: 2012-04-23 16:28:43 UTC
From: Dawn
Topic: 853  Message: 866

I have also witheld posting regarding the E8285a. I own an 8924c as well, but also own a E8285 for about 3 years prior. Outside of Brian's videos on Utube, there's virtually no reference or knowledge of the unit on any amateur or test equipment forums. Everything I learned on using it came either from an 8920 or E6380 manual.

--- In hp8924@yahoogroups.com, "k6png" <irlp3358@...> wrote:
>
> Sure, I don't have a problem discussing any of the extremely similar HP/Agilent models. That being said please keep the topics to the "extremely similar models".
>
> Ray
> K6PNG
> List Owner
>
> --- In hp8924@yahoogroups.com, "EC Welch" <ecw2f@> wrote:
> >
> > Ray,
> >
> > Does this offer extend to HP8935/AgilentE6380A?
> >
> > EC
> >
> > WA7E
> >
> >
> >
> > From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of
> > k6png
> > Sent: Sunday, April 22, 2012 3:02 PM
> > To: hp8924@yahoogroups.com
> > Subject: [hp8924] Re: HP 8920
> >
> >
> >
> >
> >
> >
> >
> > --- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com> , "Ralph S.
> > Turk" <w7hsg@> wrote:
> > >
> > > Does any one know of a HP 8920 forum?
> > >
> > >
> > > Ralph, W7HSG

> > >
> > Ralph,
> > I dont know of a 8920 specific forum. you are more than welcome to
> > ask your questions here since the 8920 is extremely similar to the 8924.
> >
> > Ray
> > K6PNG
> > List Owner.
> >
>

# 867. Re: HP 8920A Memory card

Yahoo group: hp8924
Date: 2012-04-23 16:53:30 UTC
From: Robert Atkinson
Topic: 867  Message: 867

Hi Ralph,
It is an odd format, 40 pins in a single row. The cards are rare and programmers even rarer. One option would be to program the image into a 4Mb (512MB) EPROM or EEPROM and hard wire in internally to the A7 card with a switch on the chip select to switch it in and out. Most of the connections could be done by "piggy-backing" the chip onto another ROM or perhaps there is an empty socket. The A7 circuit is in the published CLIP. Unfortunatly when I had a 8920A I didnot have the ROM image so never tried it.

Robert G8RPI

# 868. Re: [hp8924] Someone to program HP RF Tools to a card

Yahoo group: hp8924
Date: 2012-04-28 19:12:57 UTC
From: Ralph Mowery
Topic: 853  Message: 868

Thanks Robert,  I may have to take you up on the offer even with the high postage.

 I have a 2 MB card.  It seems to work as I can save from the 8924 to it,  I did get access to a laptop that had a pcmcia slot in it.  Used the memory card manager and put the RF tools iso file on it.  It seemed to go on the card and I could read it back.  When I put it in the 8924, it will not read it,but gives an error 85 code.  Do you have any hints for this problem ?

--- On Sun, 4/22/12, Robert Atkinson <robert8rpi@...> wrote:

From: Robert Atkinson <robert8rpi@...>
Subject: Re: [hp8924] Someone to program HP RF Tools to a card
To: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
Date: Sunday, April 22, 2012, 4:50 PM

Hi,
I can do it, but I'm in the UK so it would cheaper postage if you can find someone closer.

Regards,
Robert.

# 869. Re: [hp8924] Someone to program HP RF Tools to a card

Yahoo group: hp8924
Date: 2012-04-28 20:47:34 UTC
From: N9LLO@aol.com
Topic: 853  Message: 869

Make sure you extract the ISO file before you program it to the card, the 8924 wont know what to do with an ISO. There is a straight binary version in the files section.

Chris
N9LLO

In a message dated 4/28/2012 3:14:02 P.M. Eastern Daylight Time, ku4pt@... writes:

Thanks Robert, I may have to take you up on the offer even with the high postage.

I have a 2 MB card. It seems to work as I can save from the 8924 to it, I did get access to a laptop that had a pcmcia slot in it. Used the memory card manager and put the RF tools iso file on it. It seemed to go on the card and I could read it back. When I put it in the 8924, it will not read it,but gives an error 85 code. Do you have any hints for this problem ?

--- On Sun, 4/22/12, Robert Atkinson <robert8rpi@...> wrote:

From: Robert Atkinson <robert8rpi@...>
Subject: Re: [hp8924] Someone to program HP RF Tools to a card
To: "hp8924@...m" <hp8924@yahoogroups.com>
Date: Sunday, April 22, 2012, 4:50 PM

Hi,
I can do it, but I'm in the UK so it would cheaper postage if you can find someone closer.

Regards,
Robert.

# 870. Re: [hp8924] Someone to program HP RF Tools to a card

Yahoo group: hp8924
Date: 2012-04-28 21:16:08 UTC
From: Ralph Mowery
Topic: 853  Message: 870

The  bin file in the files section is what I am trying to use.  Somewhere I seem to be missing something.

--- On Sat, 4/28/12, N9LLO@... <N9LLO@...> wrote:

From: N9LLO@... <N9LLO@...>
Subject: Re: [hp8924] Someone to program HP RF Tools to a card
To: hp8924@yahoogroups.com
Date: Saturday, April 28, 2012, 4:47 PM

Make sure you extract the ISO file before you program it to the card, the 8924 wont know what to do with an ISO. There is a straight binary version in the files section.

Chris
N9LLO

# 871. Re: [hp8924] Someone to program HP RF Tools to a card

Yahoo group: hp8924
Date: 2012-04-29 08:33:21 UTC
From: Robert Atkinson
Topic: 853  Message: 871

Hi Ralph,
Make sure you erase and blank check the card before copying the binary to it. There may be some old formatting or data extending past the 512k binary.

Regards,
Robert.

---
From: Ralph Mowery <ku4pt@...>
To: hp8924@yahoogroups.com
Sent: Saturday, 28 April 2012, 22:16
Subject: Re: [hp8924] Someone to program HP RF Tools to a card

The  bin file in the files section is what I am trying to use.  Somewhere I seem to be missing something.

--- On Sat, 4/28/12, N9LLO@... <N9LLO@...> wrote:

>From: N9LLO@... <N9LLO@...>
>Subject: Re: [hp8924] Someone to program HP RF Tools to a card
>To: hp8924@yahoogroups.com
>Date: Saturday, April 28, 2012, 4:47 PM
>
>
>
>
>Make sure you extract the ISO file before you program it to the card, the 8924 wont know what to do with an ISO. There is a straight binary version in the files section.
>
>Chris
>N9LLO
>

# 872. Re: [hp8924] Someone to program HP RF Tools to a card

Yahoo group: hp8924
Date: 2012-04-29 11:54:23 UTC
From: N9LLO@aol.com
Topic: 853  Message: 872

If you don't have any luck I can try to program it for you

Chris

In a message dated 4/28/2012 5:16:10 P.M. Eastern Daylight Time,
ku4pt@yahoo.com writes:

The bin file in the files section is what I am trying to use. Somewhere
I seem to be missing something.

--- On Sat, 4/28/12, N9LLO@... <N9LLO@...> wrote:

From: N9LLO@... <N9LLO@...>
Subject: Re: [hp8924] Someone to program HP RF Tools to a card
To: hp8924@yahoogroups.com
Date: Saturday, April 28, 2012, 4:47 PM

Make sure you extract the ISO file before you program it to the card, the
8924 wont know what to do with an ISO. There is a straight binary version
in the files section.

Chris
N9LLO

# 873. Re: [hp8924] SRAM > FLASH adapter

Yahoo group: hp8924
Date: 2012-05-03 23:43:33 UTC
From: Ralph Mowery
Topic: 796  Message: 873

I bought one just like it and it also worked for me.

I had a couple of bad starts with for some unknown reason, but I think it was me as this was the first time I had used the Memory Card manager. Third try at putting the program on and it works fine.

I think it was about $ 70 plus a couple of bucks to ship it. The battery in it was dead, but a new one was included in the package.

--- On Sat, 3/31/12, Tim <tim@...> wrote:

From: Tim <tim@...>
Subject: Re: [hp8924] SRAM > FLASH adapter
To: hp8924@yahoogroups.com
Date: Saturday, March 31, 2012, 6:26 PM

Hi Chris,

Don't know what your budget is, but about 3 months ago, I bought one of these, put RF tools on it, and it works great.

Tim

http://www.ebay.com/itm/NEW-Eiger-2MB-SRAM-PCMCIA-CARD-WARRANTED-/220913294228?pt=LH_DefaultDomain_0&hash=item336f755b94

# 874. Using HP 85044A As Return Loss Bridge?

Yahoo group: hp8924
Date: 2012-05-04 19:06:36 UTC
From: radioman762
Topic: 874  Message: 874

Has anyone used a HP 85044A Transmission / Reflection Test Set instead of a Return Loss Bridge with the HP 8924C?

From my limited knowledge of such things, the HP 85044 appears to contain such a bridge, but has an extra port. I don't want modify mine, but I wonder whether it would work if I provide a 50 ohm termination for the unused port?

Thanks in advance for any comments / suggestions.

F.W. Bray
W6WAW

# 875. Re: [hp8924] Using HP 85044A As Return Loss Bridge?

Yahoo group: hp8924
Date: 2012-05-05 19:14:04 UTC
From: Robert Atkinson
Topic: 874  Message: 875

Hi,
Yes the 85044A will work fine. Just put a 50R termination on the incident port. It does not even have to be a high quality load, it's not the reference of the bridge.. The input power splitter will effectively replace the 6dB attenuator recommended on the RF duplex port of the 8924C.

Robert G8RPI.

---
From: radioman762 <fwbray@mminternet.com>
To: hp8924@yahoogroups.com
Sent: Friday, 4 May 2012, 20:06
Subject: [hp8924] Using HP 85044A As Return Loss Bridge?

Has anyone used a HP 85044A Transmission / Reflection Test Set instead of a Return Loss Bridge with the HP 8924C?

From my limited knowledge of such things, the HP 85044 appears to contain such a bridge, but has an extra port. I don't want modify mine, but I wonder whether it would work if I provide a 50 ohm termination for the unused port?

Thanks in advance for any comments / suggestions.

F.W. Bray
W6WAW

# 876. Calibrate watt meter?

Yahoo group: hp8924
Date: 2012-05-09 02:11:08 UTC
From: ki0eo@hotmail.com
Topic: 876  Message: 876

Hello all,

Does anyone know how to calibrate the watt meter in the HP8924C?
I installed the 100 watt attenuator some time ago.
I also loaded the calibration data.
I primarily work on UHF radio equipment.
I discovered my 8924c is pretty accurate in the UHF range (444.000) but is off quite a bit in the VHF (146.000) range.
I've zeroed my power meter and ran the complete self test and everything passes ok.
I have also scoured my service manual and am unable to come up with a calibration procedure.

Thanks,
Don

# 877. Re: [hp8924] Calibrate watt meter?

Yahoo group: hp8924
Date: 2012-05-09 16:20:24 UTC
From: Ralph Mowery
Topic: 876  Message: 877

I do not know of a way to calibrate the 8924, but was interisted in how far your 8924 seems to be off.

My 8924 started off as the 3 watt unit and I put in a 60 watt load and calibration data.

I did a few quick checks with mine compaired to an old Struthers inline meter that I bought as new surplus about 10 years ago.  It was still in about 3 layers of military wraping when I bought it. I seldom use it, and it still looks almost new.

At 150 mhz, it was within about 3 watts from 50 to 5 watts.
At 450 mhz, it was within one watt from 20 to 5 watts.

It seems that much of the equipment to generate low level signals is very close.  I have an old Motorola generator like you often see in the Mastr ll books and the uv output seems very close to the modern test sets.  Most wttmeters seem to have a big differance in what they show.  I guess they are not calibrated very well over the whole frequency range.

--- On Tue, 5/8/12, ki0eo@hotmail.com <ki0eo@...> wrote:

From: ki0eo@... <ki0eo@...>
Subject: [hp8924] Calibrate watt meter?
To: hp8924@yahoogroups.com
Date: Tuesday, May 8, 2012, 10:11 PM

Hello all,

Does anyone know how to calibrate the watt meter in the HP8924C?
I installed the 100 watt attenuator some time ago.
I also loaded the calibration data.
I primarily work on UHF radio equipment.
I discovered my 8924c is pretty accurate in the UHF range (444.000) but is off quite a bit in the VHF (146.000) range.
I've zeroed my power meter and ran the complete self test and everything passes ok.
I have also scoured my service manual and am unable to come up with a calibration procedure.

Thanks,
Don

# 878. Re: Calibrate watt meter?

Yahoo group: hp8924
Date: 2012-05-10 02:17:55 UTC
From: ki0eo@hotmail.com
Topic: 876  Message: 878

Hi Ralph,

At 450 Mhz my Bird watt meter reads 38 watts and my 8924c reads 38 watts.

At 150 Mhz my Bird watt meter reads 40 watts and my 8924c reads 33 watts.

I discovered this when I helped a friend of mine align his VHF MSF5000. We set the power level with the 8924c and when we finished we put a Bird watt meter on and discovered the error.

This monitor has to have an alignment somewhere.
I upgraded to a 100 watt attenuator and installed the cal data but never did know where to align it at.

Don...KI0EO...

--- In hp8924@yahoogroups.com, Ralph Mowery <ku4pt@...> wrote:
>
>
> I do not know of a way to calibrate the 8924, but was interisted in how far your 8924 seems to be off.
>
> My 8924 started off as the 3 watt unit and I put in a 60 watt load and calibration data.
>
> I did a few quick checks with mine compaired to an old Struthers inline meter that I bought as new surplus about 10 years ago.  It was still in about 3 layers of military wraping when I bought it. I seldom use it, and it still looks almost new.
>
> At 150 mhz, it was within about 3 watts from 50 to 5 watts.
> At 450 mhz, it was within one watt from 20 to 5 watts.
>
> It seems that much of the equipment to generate low level signals is very close.  I have an old Motorola generator like you often see in the Mastr ll books and the uv output seems very close to the modern test sets.  Most wttmeters seem to have a big differance in what they show.  I guess they are not calibrated very well over the whole frequency range.
>
>
> --- On Tue, 5/8/12, ki0eo@... <ki0eo@...> wrote:
>
>
> From: ki0eo@... <ki0eo@...>
> Subject: [hp8924] Calibrate watt meter?
> To: hp8924@yahoogroups.com
> Date: Tuesday, May 8, 2012, 10:11 PM
>
>

> Hello all,
>
> Does anyone know how to calibrate the watt meter in the HP8924C?
> I installed the 100 watt attenuator some time ago.
> I also loaded the calibration data.
> I primarily work on UHF radio equipment.
> I discovered my 8924c is pretty accurate in the UHF range (444.000) but is off quite a bit in the VHF (146.000) range.
> I've zeroed my power meter and ran the complete self test and everything passes ok.
> I have also scoured my service manual and am unable to come up with a calibration procedure.
>
> Thanks,
> Don
>

# 879. OT 8922 help

Yahoo group: hp8924
Date: 2012-05-10 04:39:40 UTC
From: Glenn Little WB4UIV
Topic: 879  Message: 879

I have a 8922M that has an IF Link as the primary RF input.
The CRT is badly burned.
The front bezel is cracked at one screw hole.
It has option 006 (spectrum analyzer)
I also have a 8922S that has a 15 Watt input.
The CRT on this service monitor is only slightly burned and the bezel is ok.

Can the front end that allows 15 Watts be moved to the monitor with
option 6, or, can I move the spectrum analyzer into this monitor?
Is a firmware update required for the spectrum analyzer?
Is recalibration required to change the power handling capability (as
well as the proper hardware)?

Wish I could find a full service manual for the 8922 series.

Thanks
73
Glenn
WB4UIV

# 880. Re: [hp8924] OT 8922 help

Yahoo group: hp8924
Date: 2012-05-10 10:55:02 UTC
From: Robert Atkinson
Topic: 879  Message: 880

Hi Glenn,
The Spectrum Analyser Module from the M will fit straight into the S. I do not know if you need to run a  calibration program. Try it and see. I'm pretty sure the calibration/assembly level maintenance manual is out in the public domain. I'm away from home so don't have access to my files to check. Moving the attenuator from the M to the S will need a calibration file. you may also have to swap the input module and that is a lot of work. Keep the S and rob rhe M.

Robert G8RPI.

---
From: Glenn Little WB4UIV <glennmaillist@...>
To: hp8924@yahoogroups.com
Sent: Thursday, 10 May 2012, 5:39
Subject: [hp8924] OT 8922 help

I have a 8922M that has an IF Link as the primary RF input.
The CRT is badly burned.
The front bezel is cracked at one screw hole.
It has option 006 (spectrum analyzer)
I also have a 8922S that has a 15 Watt input.
The CRT on this service monitor is only slightly burned and the bezel is ok.

Can the front end that allows 15 Watts be moved to the monitor with
option 6, or, can I move the spectrum analyzer into this monitor?
Is a firmware update required for the spectrum analyzer?
Is recalibration required to change the power handling capability (as
well as the proper hardware)?

Wish I could find a full service manual for the 8922 series.

Thanks
73
Glenn
WB4UIV

# 881. Duplex mode

Yahoo group: hp8924
Date: 2012-05-10 13:40:12 UTC
From: Tim
Topic: 730  Message: 881

Hi Folks,

I'm trying to setup the duplex mode so I can check out a repeater - setting levels, etc.

However, on the duplex screen, I don't see any provision for putting the second audio generator on the signal.

(I need both a sub audible 'PL' tone, and the 1kHz tone).

I figure there's some way to do it, just not sure how.

Thanks,

Tim

# 882. RE: [hp8924] Duplex mode

Yahoo group: hp8924
Date: 2012-05-10 14:23:13 UTC
From: mwbesemer@cox.net
Topic: 730  Message: 882
Attachments: 2 described; binary payloads are missing from this source WARC

[ Attachment content not displayed ]

# 883. Re: [hp8924] Duplex mode

Yahoo group: hp8924
Date: 2012-05-10 15:01:28 UTC
From: Tim
Topic: 730  Message: 883

Thanks Mike,

I'll give it a try later.

Tim W5FN

Tim,

Working from memory here (and you know how dangerous that is), but I think you can go back to the Signal Generator screen and enter the 2nd tone, then go back to duplex. I know I've done it... just can't visualize it for sure without the instrument in front of me.

73,

Mike

WM4B

On Thu, May 10, 2012 at 9:40 AM, Tim wrote:

Hi Folks,

I'm trying to setup the duplex mode so I can check out a

repeater - setting levels, etc.

However, on the duplex screen, I don't see any provision

for putting the second audio generator on the signal.

(I need both a sub audible 'PL' tone, and the 1kHz tone).

I figure there's some way to do it, just not sure how.

Thanks,

Tim

# 884. Re: [hp8924] Duplex mode

Yahoo group: hp8924
Date: 2012-05-10 15:55:35 UTC
From: Ralph Mowery
Topic: 730  Message: 884

They seem to have hidden that one.  Go to the RX TEST screen and set the tones where you want them.  Then on the duplex screen make sure the middle block that says AF GEN TO is set to FM.  It may default to audio out.

--- On Thu, 5/10/12, Tim <tim@...> wrote:

From: Tim <tim@...>
Subject: [hp8924] Duplex mode
To: hp8924@yahoogroups.com
Date: Thursday, May 10, 2012, 9:40 AM

Hi Folks,

I'm trying to setup the duplex mode so I can check out a
repeater - setting levels, etc.

However, on the duplex screen, I don't see any provision
for putting the second audio generator on the signal.

(I need both a sub audible 'PL' tone, and the 1kHz tone).

I figure there's some way to do it, just not sure how.

Thanks,

Tim

# 885. Re: [hp8924] Re: Calibrate watt meter?

Yahoo group: hp8924
Date: 2012-05-10 17:54:31 UTC
From: Ralph Mowery
Topic: 876  Message: 885

Hi Don,

It does seem odd that the wattmeter part of the 8924 would be ok at 450 and off that much at 150.  Have you checked the Bird with any other meter to see if it is accurate at 150 ?

Did you check the power with the Bird between the 8924 and transmitter, or did you use an antenna or other dummy load ?  Also did you check for reflected power with the Bird ?

de Ralph

--- On Wed, 5/9/12, ki0eo@... <ki0eo@hotmail.com> wrote:

From: ki0eo@... <ki0eo@...>
Subject: [hp8924] Re: Calibrate watt meter?
To: hp8924@yahoogroups.com
Date: Wednesday, May 9, 2012, 10:17 PM

Hi Ralph,

At 450 Mhz my Bird watt meter reads 38 watts and my 8924c reads 38 watts.

At 150 Mhz my Bird watt meter reads 40 watts and my 8924c reads 33 watts.

I discovered this when I helped a friend of mine align his VHF MSF5000. We set the power level with the 8924c and when we finished we put a Bird watt meter on and discovered the error.

This monitor has to have an alignment somewhere.
I upgraded to a 100 watt attenuator and installed the cal data but never did know where to align it at.

Don...KI0EO...

# 886. Re: Calibrate watt meter?

Yahoo group: hp8924
Date: 2012-05-11 02:03:33 UTC
From: ki0eo@hotmail.com
Topic: 876  Message: 886

Yes, 2 bird meters, precision dummy load and also an antenna.
I agree it is quite odd that it is good at 450 and not 150.
Gotta be some way to calibrate it.

Don...KI0EO...

--- In hp8924@yahoogroups.com, Ralph Mowery <ku4pt@...> wrote:
>
> Hi Don,
>
> It does seem odd that the wattmeter part of the 8924 would be ok at 450 and off that much at 150.  Have you checked the Bird with any other meter to see if it is accurate at 150 ?
>
> Did you check the power with the Bird between the 8924 and transmitter, or did you use an antenna or other dummy load ?  Also did you check for reflected power with the Bird ?
>
>
> de Ralph
>
>
>
> --- On Wed, 5/9/12, ki0eo@... <ki0eo@...> wrote:
>
>
> From: ki0eo@... <ki0eo@...>
> Subject: [hp8924] Re: Calibrate watt meter?
> To: hp8924@yahoogroups.com
> Date: Wednesday, May 9, 2012, 10:17 PM
>
>
> Hi Ralph,
>
> At 450 Mhz my Bird watt meter reads 38 watts and my 8924c reads 38 watts.
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> At 150 Mhz my Bird watt meter reads 40 watts and my 8924c reads 33 watts.
>
> I discovered this when I helped a friend of mine align his VHF MSF5000. We set the power level with the 8924c and when we finished we put a Bird watt meter on and discovered the error.
>
> This monitor has to have an alignment somewhere.
> I upgraded to a 100 watt attenuator and installed the cal data but never did know where to align it at.
>
> Don...KI0EO...

>

# 887. Re: [hp8924] Re: Calibrate watt meter?

Yahoo group: hp8924
Date: 2012-05-11 03:03:39 UTC
From: Ralph Mowery
Topic: 876  Message: 887

I do not have a way to generate any power past the 450 band to run a test.  It would be interisting to see if the 8924 is off by very much at the high end at 900 mhz.

It might be asking too much for the 8924 to measure power from 30 to 999 mhz and be accurate at each end.

I do not normally get too excited about the ammount of power showing on any wattmeter. About anything within 10% is about all I worry about.  Usually all I care about is getting close and tuning for maximum out or minimun comming back.

Where I work I often deal with electronic measuring instruments calibrated to .5 % or less.  The thing that I understand,but drives some of the engineers batty is the temperature.  The instruments will readout to two decimal places, but the thermal couples are only good for about 3 degrees at 300 deg. C.  When two or 3 are in the same 1/4 inch probe and off a degree or two, the engineers just can not understand it and want them to read the same.

--- On Thu, 5/10/12, ki0eo@... <ki0eo@...> wrote:

From: ki0eo@... <ki0eo@...>
Subject: [hp8924] Re: Calibrate watt meter?
To: hp8924@yahoogroups.com
Date: Thursday, May 10, 2012, 10:03 PM

Yes, 2 bird meters, precision dummy load and also an antenna.
I agree it is quite odd that it is good at 450 and not 150.
Gotta be some way to calibrate it.

Don...KI0EO...

# 888. Re: Calibrate watt meter?

Yahoo group: hp8924
Date: 2012-05-11 13:00:23 UTC
From: willcoele@ameritech.net
Topic: 876  Message: 888

I was fortunate enough to own a calibrated, Boonton RF power meter. The initial cost to calibrate and repair the meter was $700.00 and $300.00 to calibrate it every year. The sensor is good to 10GHz.

I calibrated my unit by setting the frequency and then check the levels using my HP generator and the power meter. I have different correction factors for each frequency that are saved in the setups. I have a file in the files section that shows my 300 watt setup using an external attenuator and how to set the correction factor.

--- In hp8924@yahoogroups.com, ki0eo@... wrote:
>
> Hello all,
>
> Does anyone know how to calibrate the watt meter in the HP8924C?
> I installed the 100 watt attenuator some time ago.
> I also loaded the calibration data.
> I primarily work on UHF radio equipment.
> I discovered my 8924c is pretty accurate in the UHF range (444.000) but is off quite a bit in the VHF (146.000) range.
> I've zeroed my power meter and ran the complete self test and everything passes ok.
> I have also scoured my service manual and am unable to come up with a calibration procedure.
>
> Thanks,
> Don
>

# 889. Re: SRAM > FLASH adapter

Yahoo group: hp8924
Date: 2012-05-14 17:02:16 UTC
From: g4tkr
Topic: 796  Message: 889

First post on this board ...so high to you all

I have a couple of 256K HP SRAM cards, are they big enough to put the Option 100 HP tools on?

I also have an interest in the Tools and there would be one spare card available should anyone be interested (it needs a battery)

--- In hp8924@yahoogroups.com, Ralph Mowery <ku4pt@...> wrote:
>
>
> I bought one just like it and it also worked for me.
>
> I had a couple of bad starts with for some unknown reason, but I think it was me as this was the first time I had used the Memory Card manager. Third try at putting the program on and it works fine.
>
> I think it was about $ 70 plus a couple of bucks to ship it. The battery in it was dead, but a new one was included in the package.
>
>
> --- On Sat, 3/31/12, Tim <tim@...> wrote:
>
>
> From: Tim <tim@...>
> Subject: Re: [hp8924] SRAM > FLASH adapter
> To: hp8924@...m
> Date: Saturday, March 31, 2012, 6:26 PM
>
>
>
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>
>
>
>
> Hi Chris,
>
> Don't know what your budget is, but about 3 months ago, I bought one of these, put RF tools on it, and it works great.
>
> Tim
>
> http://www.ebay.com/itm/NEW-Eiger-2MB-SRAM-PCMCIA-CARD-WARRANTED-/220913294228?pt=LH_DefaultDomain_0&hash=item336f755b94

>

# 890. Re: [hp8924] Re: SRAM > FLASH adapter

Yahoo group: hp8924
Date: 2012-05-15 03:06:38 UTC
From: Robert Atkinson
Topic: 796  Message: 890

Hi,
They are not big enough for the full binary. You need 512K.

Robert G8RPI.

---
From: g4tkr <dong4tkr@...m>
To: hp8924@yahoogroups.com
Sent: Monday, 14 May 2012, 18:02
Subject: [hp8924] Re: SRAM > FLASH adapter

First post on this board ...so high to you all

I have a couple of 256K HP SRAM cards, are they big enough to put the Option 100 HP tools on?

I also have an interest in the Tools and there would be one spare card available should anyone be interested (it needs a battery)

--- In hp8924@yahoogroups.com, Ralph Mowery <ku4pt@...> wrote:
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> I bought one just like it and it also worked for me.
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> I had a couple of bad starts with for some unknown reason, but I think it was me as this was the first time I had used the Memory Card manager. Third try at putting the program on and it works fine.
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> I think it was about $ 70 plus a couple of bucks to ship it. The battery in it was dead, but a new one was included in the package.
>
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> --- On Sat, 3/31/12, Tim <tim@...> wrote:
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> From: Tim <tim@...>
> Subject: Re: [hp8924] SRAM > FLASH adapter
> To: hp8924@yahoogroups.com
> Date: Saturday, March 31, 2012, 6:26 PM
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> Hi Chris,
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> Don't know what your budget is, but about 3 months ago, I bought one of these, put RF tools on it, and it works great.
>
> Tim
>
> http://www.ebay.com/itm/NEW-Eiger-2MB-SRAM-PCMCIA-CARD-WARRANTED-/220913294228?pt=LH_DefaultDomain_0&hash=item336f755b94
>

# 891. Re: [hp8924] Re: SRAM > FLASH adapter

Yahoo group: hp8924
Date: 2012-05-15 11:14:45 UTC
From: Ralph Mowery
Topic: 796  Message: 891

The 256 K cards are not big enough to hold the RF Tools program.
You need a card that is atleast 512K.  You can use a larger card if you want to.  I used a 2 MB card like someone else used and it took the program fine.

--- On Mon, 5/14/12, g4tkr <dong4tkr@...> wrote:

From: g4tkr <dong4tkr@...>
Subject: [hp8924] Re: SRAM > FLASH adapter
To: hp8924@yahoogroups.com
Date: Monday, May 14, 2012, 1:02 PM

First post on this board ...so high to you all

I have a couple of 256K  HP SRAM cards, are they big enough to put the Option 100 HP tools on?

I also have an interest in the Tools and there would be one spare card available should anyone be interested (it needs a battery)

---

# 892. Any interest in USB PCMCIA Flash adapter or LCD Conversion for the 8935 others?

Yahoo group: hp8924
Date: 2012-05-18 17:47:10 UTC
From: kj4wlc
Topic: 892  Message: 892

I've been hacking away on my HP 8935. The planar screen was burnt a bit and I had several units with the same problem. I was able to prototype a converter for the display to use a color LCD that was a close fit (needs bezel). I also prototyped a usb key to PCMCIA adapter to store code. I just wanted to inquire if there is any interest in either of these and for the 8935 actually looking at replacing the main CPU to allow writing a more generic service monitor application.

KJ4WLC

# 893. Re: [hp8924] Any interest in USB PCMCIA Flash adapter or LCD Conversion for the 8935 others?

Yahoo group: hp8924
Date: 2012-05-18 21:24:37 UTC
From: Ralph S. Turk
Topic: 892  Message: 893

I would be interested in the display. Mine had missing vert and horiz lines. It is not a major
problem since I use a 15" B&W monitor. I would also be interested in the CPU application.
Ralph, W7HSG
r
----- Original Message -----
From: "kj4wlc" <shane@...>
To: hp8924@yahoogroups.com
Sent: Friday, May 18, 2012 10:47:10 AM
Subject: [hp8924] Any interest in USB PCMCIA Flash adapter or LCD Conversion for the 8935 others?

I've been hacking away on my HP 8935. The planar screen was burnt a bit and I had several units with the same problem. I was able to prototype a converter for the display to use a color LCD that was a close fit (needs bezel). I also prototyped a usb key to PCMCIA adapter to store code. I just wanted to inquire if there is any interest in either of these and for the 8935 actually looking at replacing the main CPU to allow writing a more generic service monitor application.

KJ4WLC

# 894. Re: Any interest in USB PCMCIA Flash adapter or LCD Conversion for the 8935 others?

Yahoo group: hp8924
Date: 2012-05-19 11:27:09 UTC
From: c_day_nz
Topic: 892  Message: 894

Add me to the list for USB > PCMCIA..

ZL1CVD

--- In hp8924@...m, "kj4wlc" <shane@...> wrote:
>
> I've been hacking away on my HP 8935. The planar screen was burnt a bit and I had several units with the same problem. I was able to prototype a converter for the display to use a color LCD that was a close fit (needs bezel). I also prototyped a usb key to PCMCIA adapter to store code. I just wanted to inquire if there is any interest in either of these and for the 8935 actually looking at replacing the main CPU to allow writing a more generic service monitor application.
>
> KJ4WLC
>

# 895. 400 KHz unit?

Yahoo group: hp8924
Date: 2012-05-19 20:33:12 UTC
From: mojoehand
Topic: 895  Message: 895

Was there an 8924C that goes down to 400 KHz and was labeled as such above the CRT? What firmware ranges would these have?

Thanks,

Joe
W5JG

# 896. Re: [hp8924] 400 KHz unit?

Yahoo group: hp8924
Date: 2012-05-19 23:41:45 UTC
From: Josh Kittle
Topic: 895  Message: 896

Yes, I own one. I believe that the difference is wether or not the unit has an electrical or mechanical attenuators in the front end....somebody else can probably provide a more thorough/correct answer.

Sent from my iPhone

On May 19, 2012, at 4:33 PM, "mojoehand" <mojoehand@...> wrote:

> Was there an 8924C that goes down to 400 KHz and was labeled as such above the CRT? What firmware ranges would these have?
>
> Thanks,
>
> Joe
> W5JG
>
>

# 897. Re: Any interest in USB PCMCIA Flash adapter or LCD Conversion for the 8935 others?

Yahoo group: hp8924
Date: 2012-05-20 03:11:13 UTC
From: robert8rpi
Topic: 892  Message: 897

Hi,
Will the PCMCIA adaptor work with the 8920B / 8924C? is it read and write in the test set? Any idea of cost?
Sounds like you have put a lot of effort into this. There is the physical PCMCIA interface, USB host, Buffer memory and dealing with the FAT on the USB key. I guess the FTDI Vinculum chip would do a lot of the work but I've never used one. The only PCMCIA break-out I've ever found was a Digi-Key one at nearly $200.

Regards,
Robert G8RPI.

--- In hp8924@yahoogroups.com, "kj4wlc" <shane@...> wrote:
>
> I've been hacking away on my HP 8935. The planar screen was burnt a bit and I had several units with the same problem. I was able to prototype a converter for the display to use a color LCD that was a close fit (needs bezel). I also prototyped a usb key to PCMCIA adapter to store code. I just wanted to inquire if there is any interest in either of these and for the 8935 actually looking at replacing the main CPU to allow writing a more generic service monitor application.
>
> KJ4WLC
>

# 898. 11807E opt 01

Yahoo group: hp8924
Date: 2012-05-21 01:17:59 UTC
From: mojoehand
Topic: 898  Message: 898

There was some discussion about this set of tests (US FM) a while back. Has anyone managed to acquire this software? Can it be made available as a binary image, as the RF Tools was?

Joe
W5JG

# 899. E8285A input attenuator

Yahoo group: hp8924
Date: 2012-05-21 04:33:55 UTC
From: mojoehand
Topic: 899  Message: 899

I saw messages here that said many of the internal modules were interchangeable between the 8924C and the E8285A. Is this true of the 60W/100W attenuator upgrades? I know that HP didn't offer this upgrade for the E8285A.

I've seen the other attenuator upgrade methods some have used and posted about. I'd really like to know if the official 8924C upgrade will fit the E8285A.

I don't have an E8285A or 8924C yet, but soon I'll have something. I'm leaning toward the E8285A. Of course, if I could afford a 8920A or 8921A, I'd get one of those.

Joe
W5JG

# 900. Re: [hp8924] 11807E opt 01

Yahoo group: hp8924
Date: 2012-05-21 09:05:48 UTC
From: N9LLO@aol.com
Topic: 898  Message: 900

NA FM is included in the Binary image in the files section.

Chris
N9LLO

In a message dated 5/20/2012 9:18:04 P.M. Eastern Daylight Time,
mojoehand@... writes:

There was some discussion about this set of tests (US FM) a while back. Has
anyone managed to acquire this software? Can it be made available as a
binary image, as the RF Tools was?

Joe
W5JG

# 901. Re: 11807E opt 01

Yahoo group: hp8924
Date: 2012-05-21 20:46:34 UTC
From: mojoehand
Topic: 898  Message: 901

Good to know. Thanks.

--- In hp8924@yahoogroups.com, N9LLO@... wrote:
>
> NA FM is included in the Binary image in the files section.
>
> Chris
> N9LLO
>
>
> In a message dated 5/20/2012 9:18:04 P.M. Eastern Daylight Time,
> mojoehand@... writes:
>
>
>
>
> There was some discussion about this set of tests (US FM) a while back. Has
> anyone managed to acquire this software? Can it be made available as a
> binary image, as the RF Tools was?
>
> Joe
> W5JG
>

# 902. Re: Any interest in USB PCMCIA Flash adapter or LCD Conversion for the 8935 others?

Yahoo group: hp8924
Date: 2012-05-22 16:45:29 UTC
From: kj4wlc
Topic: 892  Message: 902

I don't have a 8924C to test with but I don't see why not unless its a different type of PCMCIA than the 8935.

--- In hp8924@yahoogroups.com, "robert8rpi" <robert8rpi@...> wrote:
>
> Hi,
> Will the PCMCIA adaptor work with the 8920B / 8924C? is it read and write in the test set? Any idea of cost?
> Sounds like you have put a lot of effort into this. There is the physical PCMCIA interface, USB host, Buffer memory and dealing with the FAT on the USB key. I guess the FTDI Vinculum chip would do a lot of the work but I've never used one. The only PCMCIA break-out I've ever found was a Digi-Key one at nearly $200.
>
> Regards,
> Robert G8RPI.
>
> --- In hp8924@yahoogroups.com, "kj4wlc" <shane@> wrote:
> >
> > I've been hacking away on my HP 8935. The planar screen was burnt a bit and I had several units with the same problem. I was able to prototype a converter for the display to use a color LCD that was a close fit (needs bezel). I also prototyped a usb key to PCMCIA adapter to store code. I just wanted to inquire if there is any interest in either of these and for the 8935 actually looking at replacing the main CPU to allow writing a more generic service monitor application.
> >
> > KJ4WLC
> >
>

# 903. Re: [hp8924] Re: Any interest in USB PCMCIA Flash adapter or LCD Conversion for the 8935 others?

Yahoo group: hp8924
Date: 2012-05-22 19:01:33 UTC
From: Robert Atkinson
Topic: 892  Message: 903

Hi,
I don't know if it is different or not. Are you emulating an SRAM card?

Regards,
Robert.

---
From: kj4wlc <shane@...>
To: hp8924@yahoogroups.com
Sent: Tuesday, 22 May 2012, 17:45
Subject: [hp8924] Re: Any interest in USB PCMCIA Flash adapter or LCD Conversion for the 8935 others?

I don't have a 8924C to test with but I don't see why not unless its a different type of PCMCIA than the 8935.

--- In hp8924@yahoogroups.com, "robert8rpi" <robert8rpi@...> wrote:
>
> Hi,
> Will the PCMCIA adaptor work with the 8920B / 8924C? is it read and write in the test set? Any idea of cost?
> Sounds like you have put a lot of effort into this. There is the physical PCMCIA interface, USB host, Buffer memory and dealing with the FAT on the USB key. I guess the FTDI Vinculum chip would do a lot of the work but I've never used one. The only PCMCIA break-out I've ever found was a Digi-Key one at nearly $200.
>
> Regards,
> Robert G8RPI.
>
> --- In hp8924@yahoogroups.com, "kj4wlc" <shane@> wrote:
> >
> > I've been hacking away on my HP 8935. The planar screen was burnt a bit and I had several units with the same problem. I was able to prototype a converter for the display to use a color LCD that was a close fit (needs bezel). I also prototyped a usb key to PCMCIA adapter to store code. I just wanted to inquire if there is any interest in either of these and for the 8935 actually looking at replacing the main CPU to allow writing a more generic service monitor application.
> >
> > KJ4WLC
> >
>

# 904. Re: Any interest in USB PCMCIA Flash adapter or LCD Conversion for the 8935 others?

Yahoo group: hp8924
Date: 2012-05-24 14:18:29 UTC
From: kj4wlc
Topic: 892  Message: 904

Yes. I'm not sure if the 8924 or other use SRAM but the 8935 does.

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Hi,
> I don't know if it is different or not. Are you emulating an SRAM card?
>
> Regards,
> Robert.
>
>
>
> _____
> From: kj4wlc <shane@...>
> To: hp8924@yahoogroups.com
> Sent: Tuesday, 22 May 2012, 17:45
> Subject: [hp8924] Re: Any interest in USB PCMCIA Flash adapter or LCD Conversion for the 8935 others?
>
>
> Â
> I don't have a 8924C to test with but I don't see why not unless its a different type of PCMCIA than the 8935.
>
> --- In hp8924@yahoogroups.com, "robert8rpi" <robert8rpi@> wrote:
> >
> > Hi,
> > Will the PCMCIA adaptor work with the 8920B / 8924C? is it read and write in the test set? Any idea of cost?
> > Sounds like you have put a lot of effort into this. There is the physical PCMCIA interface, USB host, Buffer memory and dealing with the FAT on the USB key. I guess the FTDI Vinculum chip would do a lot of the work but I've never used one. The only PCMCIA break-out I've ever found was a Digi-Key one at nearly $200.
> >
> > Regards,
> > Robert G8RPI.
> >
> > --- In hp8924@yahoogroups.com, "kj4wlc" <shane@> wrote:
> > >
> > > I've been hacking away on my HP 8935. The planar screen was burnt a bit and I had several units with the same problem. I was able to prototype a converter for the display to use a color LCD that was a close fit (needs bezel). I also prototyped a usb key to PCMCIA adapter to store code. I just wanted to inquire if there is any interest in either of these and for the 8935 actually looking at replacing the main CPU to allow writing a more generic

service monitor application.
> > >
> > > KJ4WLC
> > >
> >
>

# 906. Re: Duplex mode

Yahoo group: hp8924
Date: 2012-05-25 00:21:07 UTC
From: willcoele@ameritech.net
Topic: 730  Message: 906

Press SHIFT then AF/ANL to enter the encoder screen. Select Func Gen and setup Generator 2 for a sinewave and your PL frequnecy. Select AFGen2 To FM and set the deviation to .5 or .6 KHz.

When the RF Generator output is connected to the Duplex out, this will setup Generator 2 for a PL tone. In the Duplex screen you can setup AFGen 1 for any frequency or deviation with out affecting the PL tone.

--- In hp8924@yahoogroups.com, Tim <tim@...> wrote:
>
> Hi Folks,
>
> I'm trying to setup the duplex mode so I can check out a
> repeater - setting levels, etc.
>
> However, on the duplex screen, I don't see any provision
> for putting the second audio generator on the signal.
>
> (I need both a sub audible 'PL' tone, and the 1kHz tone).
>
> I figure there's some way to do it, just not sure how.
>
> Thanks,
>
> Tim
>

# 908. EDACS tests

Yahoo group: hp8924
Date: 2012-05-27 04:19:38 UTC
From: mojoehand
Topic: 908  Message: 908

At work, we have an 8920A and the EDACS test software on memory card. I borrowed a 9121 HPIB floppy drive (I can't find a 9122C locally). I tried hooking up the floppy to the 8920A, but I don't see how to initialize a disk or to transfer files.

The goal is to load the EDACS programs into memory and save them on floppy. I think the 8920A supports the DOS filesystem, so I should be able to read the disks on a PC. If the 8920A only supports LIF, I should still be able to read the disks on a PC using HPDir.

Does anyone know how to accomplish this?

Since the 8920A memory card is not PCMCIA, going the floppy route seems like the best way to make a backup copy of the EDACS software.

Joe
W5JG

# 909. New file uploaded to hp8924

Yahoo group: hp8924
Date: 2012-05-27 04:24:06 UTC
From: hp8924@yahoogroups.com
Topic: 31  Message: 909

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hp8924
group.

File : /RF Tools & NA FM.zip
Uploaded by : mojoehand <mojoehand@...>
Description : Extracted from 11807Eopt100.bin posted here.

You can access this file at the URL:
http://groups.yahoo.com/group/hp8924/files/RF%20Tools%20%26%20NA%20FM.zip

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

mojoehand <mojoehand@...>

# 910. 11807Eopt100.bin

Yahoo group: hp8924
Date: 2012-05-27 04:32:57 UTC
From: mojoehand
Topic: 910  Message: 910

I just uploaded a Zip file containing all of the files that are in the 11807Eopt100.bin file posted here. This should make it easier to simply copy the files to a PCMCIA card and not have to deal with "image" software.

I haven't tried using these files yet, as my E8285A hasn't arrived yet. However, all of the program (PGM) files look correct and load into a text editor just fine (It's been many years since I programmed in HP BASIC). The other files load as binary, but they also look as I would expect.

After my E8285A arrives, I'll order an SRAM card and give this a try. In the mean time, feel free to try it yourself and report back.

BTW, when I previously asked about getting the NA FM tools, I was told that they were also in this RF Tools image. As you can see from what I extracted, they are indeed. Two for one :-)

Joe
W5JG

# 911. Re: [hp8924] EDACS tests

Yahoo group: hp8924
Date: 2012-05-27 13:53:27 UTC
From: Robert Atkinson
Topic: 908  Message: 911

Hi Joe ,
Chapter 6 of the 8920A programmers guide explains disk access. The "InstrumentBASIC User's Handbook" give more general information. It is done primarlly through the TOOLS menu. While the 8920A will support DOS (FAT) format on the SRAM card, it expects program cards to be in LIF format.

To convert from a 8920A (Epsom 40pin) program card to a 8920B PCMCIA you could read from a 8920A to an external LIF drive then connect the drive to a 8920B (or 8924C) and write to a PCMCIA card. A binary copy of the PCMCIA could then be made in a PC with MCE and used for making more copies. Not sure if HPDir will support writing LIF to a PCMCIA SRAM card in a PC. There are also the HP SDF utilites
ftp://ftp.agilent.com/pub/mpusup/35670A/SDF_utilities/

HTH,
Robert.

---
From: mojoehand <mojoehand@...>
To: hp8924@yahoogroups.com
Sent: Sunday, 27 May 2012, 5:23
Subject: [hp8924] EDACS tests

At work, we have an 8920A and the EDACS test software on memory card. I borrowed a 9121 HPIB floppy drive (I can't find a 9122C locally). I tried hooking up the floppy to the 8920A, but I don't see how to initialize a disk or to transfer files.

The goal is to load the EDACS programs into memory and save them on floppy. I think the 8920A supports the DOS filesystem, so I should be able to read the disks on a PC. If the 8920A only supports LIF, I should still be able to read the disks on a PC using HPDir.

Does anyone know how to accomplish this?

Since the 8920A memory card is not PCMCIA, going the floppy route seems like the best way to make a backup copy of the EDACS software.

Joe
W5JG

# 912. Re: [hp8924] 11807Eopt100.bin

Yahoo group: hp8924
Date: 2012-05-27 18:53:06 UTC
From: Ralph Mowery
Topic: 910  Message: 912

I had an extra 256K card and tried the files you uploaded.  They seem to work fine.

I am having issues with the NA FM tools part.  I am using a 8924C to do the testing with. I have not been able to get the NA FM to work off the origional bin file that was posted here either, but all the other programs work.

I thought it might be that the program is looking for the 8920 instead of a 8924C so I changed all the places where the 8920B was to 8924C in the program.  Still did not work.  I have been getting an ERROR 18 in 1356.  I did delete that line, and the program ran without errors showing.  When I ran the test, it acts as if there is no output from the RF port of the 8924C.  There must be a place that tells the program what port to send the RF to .  I am not familiar with the IBASIC to find that spot.  Been about 25 years from the last time I used even regular BASIC programs.

--- On Sun, 5/27/12, mojoehand <mojoehand@...> wrote:

From: mojoehand <mojoehand@...>
Subject: [hp8924] 11807Eopt100.bin
To: hp8924@yahoogroups.com
Date: Sunday, May 27, 2012, 12:32 AM

I just uploaded a Zip file containing all of the files that are in the 11807Eopt100.bin file posted here. This should make it easier to simply copy the files to a PCMCIA card and not have to deal with "image" software.

I haven't tried using these files yet, as my E8285A hasn't arrived yet. However, all of the program (PGM) files look correct and load into a text editor just fine (It's been many years since I programmed in HP BASIC). The other files load as binary, but they also look as I would expect.

After my E8285A arrives, I'll order an SRAM card and give this a try. In the mean time, feel free to try it yourself and report back.

BTW, when I previously asked about getting the NA FM tools, I was told that they were also in this RF Tools image. As you can see from what I extracted, they are indeed. Two for one :-)

Joe
W5JG

# 913. Re: 11807Eopt100.bin

Yahoo group: hp8924
Date: 2012-05-27 21:46:03 UTC
From: mojoehand
Topic: 910  Message: 913

Good to know that the files work (mostly). As for the NA FM tests, Rick from Amtronix had this to say in an email to me:

"NA FM tests is on our card too but there have been issues getting it to work."

I didn't get any further explaination as to what the issues were. If the problem is in the IBASIC programs, then it should be fixable. If the problem is in a library file, then probably not.

Joe

--- In hp8924@yahoogroups.com, Ralph Mowery <ku4pt@...> wrote:
>
> I had an extra 256K card and tried the files you uploaded.  They seem to work fine.
>
> I am having issues with the NA FM tools part.  I am using a 8924C to do the testing with.
> I have not been able to get the NA FM to work off the origional bin file that was posted here either, but all the other programs work.
>
> I thought it might be that the program is looking for the 8920 instead of a 8924C so I changed all the places where the 8920B was to 8924C in the program.  Still did not work.  I have been getting an ERROR 18 in 1356.  I did delete that line, and the program ran without errors showing.  When I ran the test, it acts as if there is no output from the RF port of the 8924C.  There must be a place that tells the program what port to send the RF to .  I am not familiar with the IBASIC to find that spot.  Been about 25 years from the last time I used even regular BASIC programs.
>
> --- On Sun, 5/27/12, mojoehand <mojoehand@...> wrote:
>
>
> From: mojoehand <mojoehand@...>
> Subject: [hp8924] 11807Eopt100.bin
> To: hp8924@yahoogroups.com
> Date: Sunday, May 27, 2012, 12:32 AM
>
>
> I just uploaded a Zip file containing all of the files that are in the 11807Eopt100.bin file posted here. This should make it easier to simply copy the files to a PCMCIA card and not have to deal with "image" software.
>
> I haven't tried using these files yet, as my E8285A hasn't arrived yet. However, all of the program (PGM) files look correct and load into a text editor just fine (It's been many years since I programmed in HP BASIC). The other files load as binary, but they also look as I would expect.
>
> After my E8285A arrives, I'll order an SRAM card and give this a try. In the mean time,

feel free to try it yourself and report back.
>
> BTW, when I previously asked about getting the NA FM tools, I was told that they were also in this RF Tools image. As you can see from what I extracted, they are indeed. Two for one :-)
>
> Joe
> W5JG
>

# 914. Re: EDACS tests

Yahoo group: hp8924
Date: 2012-05-27 21:58:57 UTC
From: mojoehand
Topic: 908  Message: 914

It seems that the 9121 drive is not CS/80 compatible, so it won't work. I don't know of anywhere locally to get a 9122C drive. I've looked on the net, but everyone wants serious money for these drives.

I don't need the EDACS tools myself. Besides, the E8285A I have coming won't do EDACS. I was just interested in making a copy in case others here had a use. If someone can suggest an alternate method that isn't too much trouble or expense, I'm all ears. Otherwise, I'll just forget it.

Someone mentioned reading the Epson memory cards with an EPROM programmer via an adapter. I have this programmer: http://www.mcumall.com/comersus/store/comersus_viewItem.asp?idProduct=4312. If someone can tell me how to wire an adapter and what device setting to use to read the card, I could try it.

Joe

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Hi Joe ,
> Chapter 6 of the 8920A programmers guide explains disk access. The "InstrumentBASIC Userâ□□s Handbook" give more general information. It is done primarlly through the TOOLS menu. While the 8920A will support DOS (FAT) format on the SRAM card, it expects program cards to be in LIF format.
>
> To convert from a 8920A (Epsom 40pin) program card to a 8920B PCMCIA you could read from a 8920A to an external LIF drive then connect the drive to a 8920B (or 8924C) and write to a PCMCIA card. A binary copy of the PCMCIA could then be made in a PC with MCE and used for making more copies. Not sure if HPDir will support writing LIF to a PCMCIA SRAM card in a PC. There are also the HP SDF utilites ftp://ftp.agilent.com/pub/mpusup/35670A/SDF_utilities/
>
> HTH,
> Robert.
>
>
>
> _____
> From: mojoehand <mojoehand@...>
> To: hp8924@yahoogroups.com
> Sent: Sunday, 27 May 2012, 5:23
> Subject: [hp8924] EDACS tests
>
>
> Â
> At work, we have an 8920A and the EDACS test software on memory card. I borrowed a 9121 HPIB floppy drive (I can't find a 9122C locally). I tried hooking up the floppy to the 8920A, but I don't see how to initialize a disk or to

transfer files.
>
> The goal is to load the EDACS programs into memory and save them on floppy. I think the 8920A supports the DOS filesystem, so I should be able to read the disks on a PC. If the 8920A only supports LIF, I should still be able to read the disks on a PC using HPDir.
>
> Does anyone know how to accomplish this?
>
> Since the 8920A memory card is not PCMCIA, going the floppy route seems like the best way to make a backup copy of the EDACS software.
>
> Joe
> W5JG
>

# 915. Re: [hp8924] 11807Eopt100.bin

Yahoo group: hp8924
Date: 2012-05-27 22:33:49 UTC
From: N9LLO@aol.com
Topic: 910  Message: 915

The NA-FM file on my card is the original binary file that I uploaded to the files section. It loads and runs on my 8920B without error. I do not have a cable made up to test any radios but it will generate a signal and measure power and report test failures on the other items, so I believe it will work correctly if I ever need to use it. I have used Memory Card Explorer to write the binary file to several cards without any problems.
I erased the card and wrote the file exactly as it appears in the files section. I am not sure what problems "dealing with image software" that moejoe is referring to. It seems to be a simple and straight forward process. I guess it could be a compatibility issue with the 8924.

Chris
N9LLO

In a message dated 5/27/2012 2:54:11 P.M. Eastern Daylight Time, ku4pt@... writes:

I had an extra 256K card and tried the files you uploaded. They seem to work fine.

I am having issues with the NA FM tools part. I am using a 8924C to do the testing with.
I have not been able to get the NA FM to work off the origional bin file that was posted here either, but all the other programs work.

I thought it might be that the program is looking for the 8920 instead of a 8924C so I changed all the places where the 8920B was to 8924C in the program. Still did not work. I have been getting an ERROR 18 in 1356. I did delete that line, and the program ran without errors showing. When I ran the test, it acts as if there is no output from the RF port of the 8924C. There must be a place that tells the program what port to send the RF to . I am not familiar with the IBASIC to find that spot. Been about 25 years from the last time I used even regular BASIC programs.

--- On Sun, 5/27/12, mojoehand <mojoehand@...> wrote:

From: mojoehand <mojoehand@...>
Subject: [hp8924] 11807Eopt100.bin
To: hp8924@yahoogroups.com
Date: Sunday, May 27, 2012, 12:32 AM

I just uploaded a Zip file containing all of the files that are in the 11807Eopt100.bin file posted here. This should make it easier to simply copy the files to a PCMCIA card and not have to deal with "image" software.

I haven't tried using these files yet, as my E8285A hasn't arrived yet. However, all of the program (PGM) files look correct and load into a text

editor just fine (It's been many years since I programmed in HP BASIC). The other files load as binary, but they also look as I would expect.

After my E8285A arrives, I'll order an SRAM card and give this a try. In the mean time, feel free to try it yourself and report back.

BTW, when I previously asked about getting the NA FM tools, I was told that they were also in this RF Tools image. As you can see from what I extracted, they are indeed. Two for one :-)

Joe
W5JG

# 916. Re: 11807Eopt100.bin

Yahoo group: hp8924
Date: 2012-05-27 23:06:06 UTC
From: mojoehand
Topic: 910  Message: 916

I didn't say there was anything wrong with the original image. I just thought that copying the files straight across to a PCMCIA memory card would be easier for some than using special software to write the image file. I was simply providing an alterative, based on the original image. Choose whichever method that works for you.

Also, copying the files to a formatted card that is larger than 512 KB will leave the rest of the card free for storage of other programs and data, if desired.

As for the 8924C not running the NA FM code, that is an entirely different issue. From a cursory glance at the code, it seems that there are some differences between models that have to be accounted for in the code via assignment to strings of different lengths (error 18 is a string overflow). Since this will probably also affect the E8285A, I'll probably spend some time looking at this later. The code is terse and poorly commented and I haven't dealt with HP BASIC in over 25 years, so it may take some time coming up with a fix.

Joe
W5JG

--- In hp8924@yahoogroups.com, N9LLO@... wrote:
>
> The NA-FM file on my card is the original binary file that I uploaded to
> the files section. It loads and runs on my 8920B without error. I do not have
> a cable made up to test any radios but it will generate a signal and
> measure power and report test failures on the other items, so I believe it will
> work correctly if I ever need to use it. I have used Memory Card Explorer
> to write the binary file to several cards without any problems.
> I erased the card and wrote the file exactly as it appears in the files
> section. I am not sure what problems "dealing with image software" that
> moejoe is referring to. It seems to be a simple and straight forward process. I
> guess it could be a compatibility issue with the 8924.
>
>
> Chris
> N9LLO
>
>
>
> In a message dated 5/27/2012 2:54:11 P.M. Eastern Daylight Time,
> ku4pt@... writes:
>
>
>
>
> I had an extra 256K card and tried the files you uploaded. They seem to
> work fine.
>

> I am having issues with the NA FM tools part. I am using a 8924C to do
> the testing with.
> I have not been able to get the NA FM to work off the origional bin file
> that was posted here either, but all the other programs work.
>
> I thought it might be that the program is looking for the 8920 instead of
> a 8924C so I changed all the places where the 8920B was to 8924C in the
> program. Still did not work. I have been getting an ERROR 18 in 1356. I did
> delete that line, and the program ran without errors showing. When I ran
> the test, it acts as if there is no output from the RF port of the 8924C.
> There must be a place that tells the program what port to send the RF to .
> I am not familiar with the IBASIC to find that spot. Been about 25 years
> from the last time I used even regular BASIC programs.
>
> --- On Sun, 5/27/12, mojoehand <mojoehand@...> wrote:
>
>
>
> From: mojoehand <mojoehand@...>
> Subject: [hp8924] 11807Eopt100.bin
> To: hp8924@yahoogroups.com
> Date: Sunday, May 27, 2012, 12:32 AM
>
> I just uploaded a Zip file containing all of the files that are in the
> 11807Eopt100.bin file posted here. This should make it easier to simply copy
> the files to a PCMCIA card and not have to deal with "image" software.
>
> I haven't tried using these files yet, as my E8285A hasn't arrived yet.
> However, all of the program (PGM) files look correct and load into a text
> editor just fine (It's been many years since I programmed in HP BASIC). The
> other files load as binary, but they also look as I would expect.
>
> After my E8285A arrives, I'll order an SRAM card and give this a try. In
> the mean time, feel free to try it yourself and report back.
>
> BTW, when I previously asked about getting the NA FM tools, I was told
> that they were also in this RF Tools image. As you can see from what I
> extracted, they are indeed. Two for one :-)
>
> Joe
> W5JG
>

# 917. Re: 11807Eopt100.bin

Yahoo group: hp8924
Date: 2012-05-27 23:11:56 UTC
From: mojoehand
Topic: 910  Message: 917

It seems that having the separate files instead of the 512 KB image has already been of use to at least one person. As Ralph states below, he copied the files to a smaller 256 KB card. This would not have been possible with the image file. Again, not better or worse than the original image - just an alternative to fit different circumstances.

Joe
W5JG

--- In hp8924@yahoogroups.com, Ralph Mowery <ku4pt@...> wrote:
>
> I had an extra 256K card and tried the files you uploaded.  They seem to work fine.

# 918. Re: [hp8924] 11807Eopt100.bin

Yahoo group: hp8924
Date: 2012-05-27 23:14:04 UTC
From: Ralph Mowery
Topic: 910  Message: 918

I think it has something to do with the 8920B and 8924C using some differant commands in part of the program.  The bin in the files section loads fine on my 8924C and everything but the NA FM works.  Also  the individual files  that were just put in the files section works except the FM NA.  One thing about the individual files is that you can load just one program on a smaller card.  I had the RF Tools running off a 256 K memory card.

I took out a line that I was getting an error in and the program starts up and seems to run except no signals seem to be sent out of the 8924C ports so it thinks the receiver under test is not working.

One thing that makes me think it must be something about the program and the way it is written is that it mentions the 8920B and another set that I do not recall the numbers of.  There must be some minor differances in the way the 8920 and 8924 sends the signals to the output.  Maybe that electronic vers mechanical input circuit  ??

I do want to think you for putting the program up.
Also to the one that said not all computers with the pcmcia slot will program all the cards.

--- On Sun, 5/27/12, N9LLO@... <N9LLO@aol.com> wrote:

From: N9LLO@... <N9LLO@...>
Subject: Re: [hp8924] 11807Eopt100.bin
To: hp8924@yahoogroups.com
Date: Sunday, May 27, 2012, 6:33 PM

The NA-FM file on my card is the original binary file that I uploaded to the files section. It loads and runs on my 8920B without error. I do not have a cable made up to test any radios but it will generate a signal and measure power and report test failures on the other items, so I believe it will work correctly if I ever need to use it. I have used Memory Card Explorer to write the binary file to several cards without any problems.
I erased the card and wrote the file exactly as it appears in the files section. I am not sure what problems "dealing with image software" that moejoe is referring to. It seems to be a simple and straight forward process. I guess it could be a compatibility issue with the 8924.

Chris
N9LLO

# 919. Re: [hp8924] Re: EDACS tests

Yahoo group: hp8924
Date: 2012-05-28 06:18:51 UTC
From: Robert Atkinson
Topic: 908  Message: 919

Hi Joe,
If you have a PC with an HPIB card you could try the HPDrive emulation software. Don't do it on my account though, I've no interest in EDACS. Perhaps you should ask if any one has an need before spending any more time on this. Thanks for all your efforts so far.

Robert.

---
From: mojoehand <mojoehand@...>
To: hp8924@yahoogroups.com
Sent: Sunday, 27 May 2012, 22:58
Subject: [hp8924] Re: EDACS tests

It seems that the 9121 drive is not CS/80 compatible, so it won't work. I don't know of anywhere locally to get a 9122C drive. I've looked on the net, but everyone wants serious money for these drives.

I don't need the EDACS tools myself. Besides, the E8285A I have coming won't do EDACS. I was just interested in making a copy in case others here had a use. If someone can suggest an alternate method that isn't too much trouble or expense, I'm all ears. Otherwise, I'll just forget it.

Someone mentioned reading the Epson memory cards with an EPROM programmer via an adapter. I have this programmer:
http://www.mcumall.com/comersus/store/comersus_viewItem.asp?idProduct=4312. If someone can tell me how to wire an adapter and what device setting to use to read the card, I could try it.

Joe

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Hi Joe ,
> Chapter 6 of the 8920A programmers guide explains disk access. The "InstrumentBASIC Userâ€™s Handbook" give more general information. It is done primarlly through the TOOLS menu. While the 8920A will support DOS (FAT) format on the SRAM card, it expects program cards to be in LIF format.
>
> To convert from a 8920A (Epsom 40pin) program card to a 8920B PCMCIA you could read from a 8920A to an external LIF drive then connect the drive to a 8920B (or 8924C) and write to a PCMCIA card. A binary copy of the PCMCIA could then be made in a PC with MCE and used for making more copies. Not sure if HPDir will support writing LIF to a PCMCIA SRAM card in a PC. There are also the HP SDF utilites
ftp://ftp.agilent.com/pub/mpusup/35670A/SDF_utilities/
>
> HTH,
> Robert.

>
>
>
> _____
> From: mojoehand <mojoehand@...>
> To: hp8924@yahoogroups.com
> Sent: Sunday, 27 May 2012, 5:23
> Subject: [hp8924] EDACS tests
>
>
> Â
> At work, we have an 8920A and the EDACS test software on memory card. I borrowed a 9121 HPIB floppy drive (I can't find a 9122C locally). I tried hooking up the floppy to the 8920A, but I don't see how to initialize a disk or to transfer files.
>
> The goal is to load the EDACS programs into memory and save them on floppy. I think the 8920A supports the DOS filesystem, so I should be able to read the disks on a PC. If the 8920A only supports LIF, I should still be able to read the disks on a PC using HPDir.
>
> Does anyone know how to accomplish this?
>
> Since the 8920A memory card is not PCMCIA, going the floppy route seems like the best way to make a backup copy of the EDACS software.
>
> Joe
> W5JG
>

# 920. Re: [hp8924] Re: 11807Eopt100.bin

Yahoo group: hp8924
Date: 2012-05-28 11:36:52 UTC
From: N9LLO@aol.com
Topic: 910  Message: 920

Thanks for the reply,
I am trying to learn some more about these things. I didn't think that a fat formatted card would work in the HP equipment is that what I am reading in your reply? Also it sounds like a good idea to be able to separate the programs. I am using several different SRAM and EEPROM cards card that I erased and copied the image to. One of the EE cards had the cellular test stuff on it that I dumped. This card works fine but you cant save setups on it as it seems the 8920B wont write it. I would like to try the edacs code as my 8920B has that option and I have a drawer full of edacs radios.

Thanks for your work Joe and keep it coming.

Chris
N9LLO

In a message dated 5/27/2012 7:06:12 P.M. Eastern Daylight Time, mojoehand@... writes:

I didn't say there was anything wrong with the original image. I just thought that copying the files straight across to a PCMCIA memory card would be easier for some than using special software to write the image file. I was simply providing an alterative, based on the original image. Choose whichever method that works for you.

Also, copying the files to a formatted card that is larger than 512 KB will leave the rest of the card free for storage of other programs and data, if desired.

As for the 8924C not running the NA FM code, that is an entirely different issue. From a cursory glance at the code, it seems that there are some differences between models that have to be accounted for in the code via assignment to strings of different lengths (error 18 is a string overflow). Since this will probably also affect the E8285A, I'll probably spend some time looking at this later. The code is terse and poorly commented and I haven't dealt with HP BASIC in over 25 years, so it may take some time coming up with a fix.

Joe
W5JG

--- In _hp8924@yahoogroups.com_ (mailto:hp8924@yahoogroups.com) , N9LLO@...
wrote:
>
> The NA-FM file on my card is the original binary file that I uploaded to
> the files section. It loads and runs on my 8920B without error. I do not
have
> a cable made up to test any radios but it will generate a signal and

> measure power and report test failures on the other items, so I believe
it will
> work correctly if I ever need to use it. I have used Memory Card
Explorer
> to write the binary file to several cards without any problems.
> I erased the card and wrote the file exactly as it appears in the files
> section. I am not sure what problems "dealing with image software" that
> moejoe is referring to. It seems to be a simple and straight forward
process. I
> guess it could be a compatibility issue with the 8924.
>
>
> Chris
> N9LLO
>
>
>
> In a message dated 5/27/2012 2:54:11 P.M. Eastern Daylight Time,
> ku4pt@... writes:
>
>
>
>
> I had an extra 256K card and tried the files you uploaded. They seem to
> work fine.
>
> I am having issues with the NA FM tools part. I am using a 8924C to do
> the testing with.
> I have not been able to get the NA FM to work off the origional bin file
> that was posted here either, but all the other programs work.
>
> I thought it might be that the program is looking for the 8920 instead
of
> a 8924C so I changed all the places where the 8920B was to 8924C in the
> program. Still did not work. I have been getting an ERROR 18 in 1356. I
did
> delete that line, and the program ran without errors showing. When I ran
> the test, it acts as if there is no output from the RF port of the
8924C.
> There must be a place that tells the program what port to send the RF to
.
> I am not familiar with the IBASIC to find that spot. Been about 25 years
> from the last time I used even regular BASIC programs.
>
> --- On Sun, 5/27/12, mojoehand <mojoehand@...> wrote:
>
>
>
> From: mojoehand <mojoehand@...>
> Subject: [hp8924] 11807Eopt100.bin

> To: _hp8924@yahoogroups.com_ (mailto:hp8924@yahoogroups.com)
> Date: Sunday, May 27, 2012, 12:32 AM
>
> I just uploaded a Zip file containing all of the files that are in the
> 11807Eopt100.bin file posted here. This should make it easier to simply
copy
> the files to a PCMCIA card and not have to deal with "image" software.
>
> I haven't tried using these files yet, as my E8285A hasn't arrived yet.
> However, all of the program (PGM) files look correct and load into a
text
> editor just fine (It's been many years since I programmed in HP BASIC).
The
> other files load as binary, but they also look as I would expect.
>
> After my E8285A arrives, I'll order an SRAM card and give this a try. In
> the mean time, feel free to try it yourself and report back.
>
> BTW, when I previously asked about getting the NA FM tools, I was told
> that they were also in this RF Tools image. As you can see from what I
> extracted, they are indeed. Two for one :-)
>
> Joe
> W5JG
>

# 921. Re: [hp8924] Re: 11807Eopt100.bin

Yahoo group: hp8924
Date: 2012-05-28 14:15:28 UTC
From: Ralph Mowery
Topic: 910  Message: 921

I have just started to learn about the programming also.  If you have a file, I guess that you could even write a program using Word or Notepad, and save it just like any dos program.  You may have to watch the file name so that the 8920 will read it.

The bin file works fine also doing the memory card explorer thing except that NA FM program.  I think that is because I am using the 8924C instead of an 8920.

Anyway what I have been doing is to take the files that were just put into the file section and loading it off the internet and putting it on a 3 inch floppy (dos format) and taking it to a laptop that has the pcmcia slot in it.  Then just using the explorer program to drag and drop the programs that I want to a card.  Works fine in the 8924C that I have except for that NA-FM program. The RF Tools work fine.  So does the other programs that are on the card.
 I am sure there is some kind of programming issue that is not compatiable with the program and the 8924C. It may have to do with the electronic attuenator and mechanical one, don't know.  I did take out a line using the Word Pad program and save it back to the card. The program will run,but for some reason it will not put out any RF signal to the receiver under test.  There is a screen that comes up like an audio level meter, and just on the white noise out of the receiver, it goes up and down with the volume.

Here is what the programming manual that you can download from the Agilent site says about the file format.  I think the 8920A defaults the opposit way.

The HP 8920B’s default file system is the Microsoft Disk Operating System (DOS). The DOS file system is used on IBM compatible personal computers. See "DOS File Naming Conventions" on page 282 for further information on the DOS file system. This implies that the HP 8920B expects a DOS formatted media for operations as shown in table 29 on page 272. If a LIF formatted media is used for the activities outlined in table 29 erroneous operation will result, with the exception of IBASIC mass storage operations. The IBASIC file system supports both LIF and DOS. The media format (DOS or LIF) is determined automatically by the IBASIC file system when the mass storage device is first accessed and the appropriate format is used from then on for IBASIC mass storage operations. File system operation defaults to DOS upon exiting from IBASIC.
NOTE: The IBASIC INITIALIZE command defaults to LIF format. Any media (RAM Disk, SRAM Cards, External Hard Disk Drive, or 3.5-inch floppy) formatted using the default conditions of the INITIALIZE command will be the LIF format and will be unusable in the HP 8920B, except for IBASIC mass storage operations. Refer to "Initializing Media for DOS or LIF File System" on page 288 for information on formatting media for the DOS file system.

--- On Mon, 5/28/12, N9LLO@... <N9LLO@...> wrote:

From: N9LLO@... <N9LLO@...>
Subject: Re: [hp8924] Re: 11807Eopt100.bin
To: hp8924@yahoogroups.com

Date: Monday, May 28, 2012, 7:36 AM

Thanks for the reply,
I am trying to learn some more about these things. I didn't think that a fat formatted card would work in the HP equipment is that what I am reading in your reply? Also it sounds like a good idea to be able to separate the programs. I am using several different SRAM and EEPROM cards card that I erased and copied the image to. One of the EE cards had the cellular test stuff on it that I dumped. This card works fine but you cant save setups on it as it seems the 8920B wont write it. I would like to try the edacs  code as my 8920B has that option and I have a drawer full of edacs radios.

Thanks for your work Joe and keep it coming.

Chris
N9LLO

# 922. hp8924 setup

Yahoo group: hp8924
Date: 2012-05-28 16:38:17 UTC
From: rickc3204
Topic: 922  Message: 922

First time for a post. excuse any miss types or repeated questions!!
Been servicing cb's, ham, & marine radios for over 30 years. Always was
using a Ramsey and IFR 1200. Purchased a 8924 with certification. Installed a 100watt
upgrade and new CRT. My question is what is a quick setup procedure for Business Band Radio
Repair (non-trunking).
Generally need off freq test and encode decode ctcss ability.
Thanks in advance for any help

# 923. RE: [hp8924] hp8924 setup

Yahoo group: hp8924
Date: 2012-05-28 16:53:24 UTC
From: Brian Swann
Topic: 922  Message: 923

Check out my YouTube channel for some basic videos that may help. They were done with a HP E8285A which is very similar to the 8924, at least as far as screens and controls.
There are some new videos coming in the next few weeks, so stay tuned.

http://www.youtube.com/n1bsbri
Briann1bs
To: hp8924@yahoogroups.com
From: kd8dc@...
Date: Mon, 28 May 2012 16:38:17 +0000
Subject: [hp8924] hp8924 setup

First time for a post. excuse any miss types or repeated questions!!

Been servicing cb's, ham, & marine radios for over 30 years. Always was

using a Ramsey and IFR 1200. Purchased a 8924 with certification. Installed a 100watt upgrade and new CRT. My question is what is a quick setup procedure for Business Band Radio Repair (non-trunking).

Generally need off freq test and encode decode ctcss ability.

Thanks in advance for any help

# 924. Re: [hp8924] hp8924 setup

Yahoo group: hp8924
Date: 2012-05-28 17:17:27 UTC
From: Ralph Mowery
Topic: 922  Message: 924

I am not sure what you are trying to ask.
If you look here, you can see how to make the set come up like you want it to when first powered on.

http://www.amtronix.com/poweron.htm

YOu do not have to use the values given, but you can subistute your own.

If you set up a screen like you want it, you can use the same procedure, but use something else becides powron.  Then when you press the TEST button (top row,just to the right of the middel) you will beable to chose the preset screens.

--- On Mon, 5/28/12, rickc3204 <kd8dc@...> wrote:

From: rickc3204 <kd8dc@roadrunner.com>
Subject: [hp8924] hp8924 setup
To: hp8924@yahoogroups.com
Date: Monday, May 28, 2012, 12:38 PM

First time for a post. excuse any miss types  or repeated questions!!
Been servicing cb's, ham, & marine radios for over 30 years.  Always was
using a Ramsey and IFR 1200. Purchased a 8924 with certification.  Installed a 100watt upgrade and new CRT.  My question is what is a quick setup procedure for Business Band Radio Repair (non-trunking).
Generally need off freq test and encode decode ctcss ability.
Thanks in advance for any help

# 925. Dual tone Paging with PL?

Yahoo group: hp8924
Date: 2012-05-28 20:05:54 UTC
From: Tim
Topic: 922  Message: 925

Hi All,

Was checking out some hand-held radios the other day, and was wondering if the 8924c can send out a two-tone sequential page with a pl tone.

Thanks,

Tim

# 926. Re: hp8924 setup

Yahoo group: hp8924
Date: 2012-05-28 21:00:08 UTC
From: mojoehand
Topic: 922  Message: 926

The HP 8920A training video mentioned here is a good introduction. Also, you can download "HP 8920A Application Handbook" from Agilent.

A more generic source is the "Land Mobile Radio Test and Troubleshooting Handbook" which I have just uploaded to the files section.

Joe
W5JG

--- In hp8924@yahoogroups.com, "rickc3204" <kd8dc@...> wrote:
>
> First time for a post. excuse any miss types or repeated questions!!
> Been servicing cb's, ham, & marine radios for over 30 years. Always was
> using a Ramsey and IFR 1200. Purchased a 8924 with certification. Installed a 100watt upgrade and new CRT. My question is what is a quick setup procedure for Business Band Radio Repair (non-trunking).
> Generally need off freq test and encode decode ctcss ability.
> Thanks in advance for any help
>

# 927. Re: Dual tone Paging with PL?

Yahoo group: hp8924
Date: 2012-05-28 21:03:32 UTC
From: mojoehand
Topic: 922  Message: 927

According to this comparison, http://www.amtronix.com/diff.htm it does. I'd check the manual for the 8924C for particulars.

Joe
W5JG

--- In hp8924@yahoogroups.com, Tim <tim@...> wrote:
>
> Hi All,
>
> Was checking out some hand-held radios the other day, and was wondering if
> the 8924c can send out a two-tone sequential page with a pl tone.
>
> Thanks,
>
> Tim
>

# 928. Re: [hp8924] Re: Dual tone Paging with PL?

Yahoo group: hp8924
Date: 2012-05-29 12:20:15 UTC
From: Milton Engle
Topic: 922  Message: 928

The 8924 (and the 8920 I think) has 2 audio generators, AF1 and AF2.
AF1 usually is set to generate 1000Hz and AF2 is normally used to produce
CTCSS tones in LMR testing.
By using the encoder screen you can select other analog and selected low
speed digital signalling formats such as DTMF,.2 tone and 5/6 tone
signalling, and DPL. The encoder screen uses AF2 as it's generator.

To do 2 tone sequential and CTCSS I would set up the 2 tone page
(frequencies and timing info and level) in the signalling menu then set up
the CTCSS tone info (frequency and level) on AF1 in the RX screen. You
might have to be in the signalling screen to start the 2 tone sequence; I
can't quite remember and I'm not near the instrument.

Note that you cannot mix together two formats that are generated in the
signalling menu; thus if you needed to test 2 tone sequential and DPL it
cannot be done without an external generator for one of the formats. Also
if you are trying to generate what Motorola called Quick Call (not Quick
Call 2) also known as Chord Tone or 2+2 paging I am fairly certain that you
are out of luck. It would be possible to generate one pair of tones at a
time using AF1 and AF2 so the group call function could be tested but I'm
fairly certain that the individual call function cannot be generated.

----- Original Message -----
From: "mojoehand" <mojoehand@...>
To: <hp8924@yahoogroups.com>
Sent: Monday, May 28, 2012 5:03 PM
Subject: [hp8924] Re: Dual tone Paging with PL?

> According to this comparison, http://www.amtronix.com/diff.htm it does.
> I'd check the manual for the 8924C for particulars.
>
> Joe
> W5JG
>
> --- In hp8924@yahoogroups.com, Tim <tim@...> wrote:
>>
>> Hi All,
>>
>> Was checking out some hand-held radios the other day, and was wondering
>> if
>> the 8924c can send out a two-tone sequential page with a pl tone.
>>
>> Thanks,
>>
>> Tim
>>

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> Yahoo! Groups Links
>
>
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# 929. E8285A batteries

Yahoo group: hp8924
Date: 2012-05-29 13:20:37 UTC
From: mojoehand
Topic: 929  Message: 929

According to the repair manual, the E8285A has a battery on the memory board and a battery on the regulator board. The reason for the memory board battery is obvious. Does anyone know why the regulator board has a battery?

Joe
W5JG

# 930. Re: E8285A batteries

Yahoo group: hp8924
Date: 2012-05-29 18:01:29 UTC
From: mojoehand
Topic: 929  Message: 930

I found something on the Agilent site that explained the purpose of the battery on the regulator board. It seems that it is a backup for the battery on the memory board. So, it's a backup for the backup.

--- In hp8924@yahoogroups.com, "mojoehand" <mojoehand@...> wrote:
>
> According to the repair manual, the E8285A has a battery on the memory board and a battery on the regulator board. The reason for the memory board battery is obvious. Does anyone know why the regulator board has a battery?
>
> Joe
> W5JG
>

# 931. Re: SRAM > FLASH adapter

Yahoo group: hp8924
Date: 2012-05-30 06:18:07 UTC
From: mojoehand
Topic: 796  Message: 931

I know this is a slightly old thread, but I have a question about the Eiger cards. Do they have attribute memory? Two ways to tell: you can read the card in a laptop running Windows; in Memory Card Explorer, while exploring the card, check the attribute option to see manufacturer and other data.

Joe
W5JG

--- In hp8924@yahoogroups.com, Tim <tim@...> wrote:
>
> Hi Chris,
>
> Don't know what your budget is, but about 3 months ago, I bought one of
> these, put RF tools on it, and it works great.
>
> Tim
>
> http://www.ebay.com/itm/NEW-Eiger-2MB-SRAM-PCMCIA-CARD-WARRANTED-/220913294228?pt=LH_DefaultDomain_0&hash=item336f755b94

# 932. Re: [hp8924] hp8924 setup

Yahoo group: hp8924
Date: 2012-05-31 02:58:58 UTC
From: Paul Holm
Topic: 922  Message: 932

I'm surprised that there hasn't been more posts in response to your question. I'm still learning to use mine but I'll offer a couple of things.

You can use the TX Test screen and the SA to check frequency output, taking the usual precautions when feeding power into the instrument. Use the AFGen 1 and/or 2 for ctcss testing.

It is worth spending time in the manual to learn the functions. I would recommend downloading the manual for the HP8920 from Agilent. The RF tests are identical to the 8924 but you don't have to wade through all the cellular stuff.

Look in the archives here: someone was working on duplicating/uploading an instuction video.

As Brian mentioned, he has very helpful videos on Youtube.

Regards,

Paul

Quoting rickc3204 <kd8dc@...>:

> First time for a post. excuse any miss types or repeated questions!!
> Been servicing cb's, ham, & marine radios for over 30 years. Always was
> using a Ramsey and IFR 1200. Purchased a 8924 with certification.
> Installed a 100watt upgrade and new CRT. My question is what is a
> quick setup procedure for Business Band Radio Repair (non-trunking).
> Generally need off freq test and encode decode ctcss ability.
> Thanks in advance for any help
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

# 933. Re: hp8924 setup

Yahoo group: hp8924
Date: 2012-05-31 15:51:23 UTC
From: willcoele@ameritech.net
Topic: 922  Message: 933

To setup the frequency measurement press the "TX TEST" button. Then move the cursor to the TX FREQUENCY. Press the "SHIFT" key then "INCR/SET" (METER) to change from a digital readout to a meter. Press the "SHIFT" key again, then press "INCR 'divide' 10" (REF SET)and enter 500. The meter should read from -500 to +500. Using the "INCR/SET" (METER) button, you can also set up a meter power measurement in a similar manner.

The unit can measure the CTCSS tone frequency but as fas as I know, it can't do a CTCSS tone squelch. Press the "RX Test" button and move the cursor to Filter 1. Select <20 Hz HPF. Move the cursor to Filter 2 and select 300Hz LPF.

Press "SHIFT" then TX/TEST (DECODE) Move the cusor to Mode and select Func Gen. In the Func Gen screen "AF ANL IN", select FM Demod. You can also set up the "Gate Time" and "Input Level".

If the TX "Tune Mode"in the TX Test screen is set for Auto, It will find the transmit frequency and the Decode screen will show the CTCSS frequency.

Jack WA9FVP
Willco Electronics

--- In hp8924@yahoogroups.com, "rickc3204" <kd8dc@...> wrote:
>
> First time for a post. excuse any miss types or repeated questions!!
> Been servicing cb's, ham, & marine radios for over 30 years. Always was
> using a Ramsey and IFR 1200. Purchased a 8924 with certification. Installed a 100watt upgrade and new CRT. My question is what is a quick setup procedure for Business Band Radio Repair (non-trunking).
> Generally need off freq test and encode decode ctcss ability.
> Thanks in advance for any help
>

# 934. Re: hp8924 setup CORRECTION

Yahoo group: hp8924
Date: 2012-05-31 16:50:10 UTC
From: willcoele@ameritech.net
Topic: 922  Message: 934

The Tune Mode should be in Manual and the meter should be set for +5 KHz and -5KHz. The meter will then show the offset from the center frequency. When you switch between Auto Tune and Manual Tune, you will have to setup the meter for both modes but I prefer to use the digital readout in Auto Tune. It's less confusing.

Auto tune shows the difference between the upper and lower limits and the offset is plus or minus the reference frequency. For example. You can set the High/Low meter limits for 144MHz and 148 MHz and when you check a 2 meter radio in auto tune mode, the meter will measure the difference of 146 MHz and the 2 meter transmit frequency. If the transmit frequency is set for 147 the meter will show bar from 146 to 147 MHz and the readout will be + 1MHz. The meter limits will be -2 MHz and + 2MHz. The "REF SET" in this case the should be set for 146 MHz

By the way, The Limits are set using "SHIFT" key then "INCR/SET" (METER). Then on the right side of the screen under "Meters:" select the "Hi End" or "Lo End" and enter the frequency in MHz. This works for both Auto and Manual Tune.

--- In hp8924@yahoogroups.com, "willcoele@..." <willcoele@...> wrote:
>
> To setup the frequency measurement press the "TX TEST" button. Then move the cursor to the TX FREQUENCY. Press the "SHIFT" key then "INCR/SET" (METER) to change from a digital readout to a meter. Press the "SHIFT" key again, then press "INCR 'divide' 10" (REF SET)and enter 500. The meter should read from -500 to +500. Using the "INCR/SET" (METER) button, you can also set up a meter power measurement in a similar manner.
>
> The unit can measure the CTCSS tone frequency but as fas as I know, it can't do a CTCSS tone squelch. Press the "RX Test" button and move the cursor to Filter 1. Select <20 Hz HPF. Move the cursor to Filter 2 and select 300Hz LPF.
>
> Press "SHIFT" then TX/TEST (DECODE) Move the cusor to Mode and select Func Gen. In the Func Gen screen "AF ANL IN", select FM Demod. You can also set up the "Gate Time" and "Input Level".
>
> If the TX "Tune Mode"in the TX Test screen is set for Auto, It will find the transmit frequency and the Decode screen will show the CTCSS frequency.
>
> Jack WA9FVP
> Willco Electronics
>
> --- In hp8924@yahoogroups.com, "rickc3204" <kd8dc@> wrote:
> >
> > First time for a post. excuse any miss types or repeated questions!!
> > Been servicing cb's, ham, & marine radios for over 30 years. Always was
> > using a Ramsey and IFR 1200. Purchased a 8924 with certification. Installed a 100watt upgrade and new CRT. My question is what is a quick setup procedure for Business Band Radio Repair (non-trunking).

> > Generally need off freq test and encode decode ctcss ability.
> > Thanks in advance for any help
> >
>

# 935. New member

Yahoo group: hp8924
Date: 2012-05-31 17:25:29 UTC
From: Gary
Topic: 935  Message: 935

Hi I am Gary Fiber K8IZ.

I am interested in getting a service monitor and have read some good things about these former cellular monitors that also have the ability for two way work.

Been looking at Amtronix and its a tough decision between the HP-8924C which they sell refurbished, the E8285A which is cheaper, looks to be tested but not refurbished and the HP 8935 E 6380A which a friend has , I have not seen it personally,and also comes with the RF Tools package.

I currently have a HP-8656B sig gen and a 100 MHz scope. I want to do some work with bandpass filters and possibly exercise my GROL from
time to time as I approch retirement. Contrary to what my profile says I will tuen 60 this year.

Not to start any wars Is there any reason one is better than the
others?

Is it easy to obtain the RF Tools software in the event I purchase a unit that does not have those?

How about the electro luminicent displays, are they holding up? Any replacements available short of using an analog computer monitor in
its place?

The appealing thing about the HP-8935A is it is somewhat portable.
Like many others dedication a couple of thousand dollars to an instrument is a chunk of funds, so purchase of a more portable unit is not likely for my purposes today.

Looked at N1BS You Tube video's. He did a great job on showing how to use his E8285A though it looks a little slow to tune through frequenies. Had to turn down the computer speaker volume during the
IC-2100 sinad test though :) When at Icom I had access and did ocassionally use an IFR 1200S monitor. I'll have to take a look at the
8920A videos in the files section have not had time yet to do so.

Here at work I have access to an old Motorola R-2001C but understand should the CRT go bad its a $1300.00 bill from Motorols for just
the CRT.

Also Hi to Jack from Wilco Electronics. I worked with him during my Icom America years often.

Gary K8IZ

# 936. Re: [hp8924] New member

Yahoo group: hp8924
Date: 2012-05-31 18:41:09 UTC
From: Ralph Mowery
Topic: 935  Message: 936

I think I would go with the 8924C unless you need to have a signal generator that is calibrated below 15 MHz. .  The 8924C will go lower, but the power input and output falls off. Everything else is ok.  It comes standard with almost everything, especially if you get one with the 60 or 100 watt input. I bought one off ebay that did not have the higher power input and put in the 60 watt conversion. I think I had about $ 950 in it when I finished.  Some other units may not have all the options you want.  Some of the other units do not have the spectrum analizer  or high stability oscillator.
I do not have a good way to check the stability of the oscillator, but by tuning in WWV at 20 mhz, the counter is either showing a 0 on the last number or  a 9 or 1 sometimes.

The RF Tools can be downloaded from the files section here and put on a pcmcia card if you have a computer that will take the pcmcia cards.  I do not see where they are really that useful except the coax fault locator.  You can do the other functions manually, it just may be easier to use with the RF tools.

Main drawback is weight, but I doubt there is much differance in 10 pounds if you have to move them.

Look over the information for the 8920B instead of the 8924C dcumentation as how to use the unit.  The 8924 has lots of the cell phone stuff that you probably will never use.  The buttons of the two units may not say exectally the same thing, and may be in differant places, but will work the same.

Minicircuits makes some return loss bridges that can be found on ebay that are good enough for general testing.  A ZFDC-20-5 is one to look for.  About 1/3 or less than the prices of others.

Let almost anything go out on most of the test monitors and you are looking at a thousand plus unless you fix it yourself.  That 8924C cost about $ 49,000 new.

N1BS does have some good vidios on U-tube.
I do not recall the link to it, but someone put a vidio of about 1 GB on the test sets.  I think it is an 8920, but most of the things apply to any of the mentioned series.

The RF tools option 11807E opt 100, is just softwear that is loaded in from a pcmcia card on the units that do not have it built in.

If there is anything I can tell you about, I can meet you on the air.  Just retired so around much of the time.

--- On Thu, 5/31/12, Gary <garyfiber@...> wrote:

From: Gary <garyfiber@...>
Subject: [hp8924] New member
To: hp8924@yahoogroups.com
Date: Thursday, May 31, 2012, 1:25 PM

Hi I am Gary Fiber K8IZ.

I am interested in getting a service monitor and have read some good things about these former cellular monitors that also have the ability for two way work.

Been looking at Amtronix and its a tough decision between the HP-8924C which they sell refurbished, the E8285A which is cheaper, looks to be tested but not refurbished and the HP 8935 E 6380A which a friend has , I have not seen it personally,and also comes with the RF Tools package.

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8920A videos in the files section have not had time yet to do so.

Here at work I have access to an old Motorola R-2001C but understand should the CRT go bad its a $1300.00 bill from Motorols for just
the CRT.

Also Hi to Jack from Wilco Electronics. I worked with him during my Icom America years often.

Gary K8IZ

# 937. Re: New member

Yahoo group: hp8924
Date: 2012-05-31 19:49:50 UTC
From: Brian
Topic: 935  Message: 937

Gary,

I think you are located in the Seattle area. If you are interested and would like to put your hands on an 8924C and play with it a bit, I live in Snoqualmie, WA. I would be happy to open the shop for you.

Best Regards,

Brian
KD4WAV

--- In hp8924@yahoogroups.com, "Gary" <garyfiber@...> wrote:
>
> Hi I am Gary Fiber K8IZ.
>
> I am interested in getting a service monitor and have read some good things about these former cellular monitors that also have the ability for two way work.
>
> Been looking at Amtronix and its a tough decision between the HP-8924C which they sell refurbished, the E8285A which is cheaper, looks to be tested but not refurbished and the HP 8935 E 6380A which a friend has , I have not seen it personally,and also comes with the RF Tools package.
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> time to time as I approch retirement. Contrary to what my profile says I will tuen 60 this year.
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>
> Is it easy to obtain the RF Tools software in the event I purchase a unit that does not have those?
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> How about the electro luminicent displays, are they holding up? Any replacements available short of using an analog computer monitor in
> its place?
>
> The appealing thing about the HP-8935A is it is somewhat portable.
> Like many others dedication a couple of thousand dollars to an instrument is a chunk of funds, so purchase of a more portable unit is not likely for my purposes today.
>
> Looked at N1BS You Tube video's. He did a great job on showing how to use his E8285A though it looks a little slow to tune through frequenies. Had to turn down the computer speaker volume during the
> IC-2100 sinad test though :) When at Icom I had access and did ocassionally use an IFR

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> 8920A videos in the files section have not had time yet to do so.
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> Here at work I have access to an old Motorola R-2001C but understand should the CRT go bad its a $1300.00 bill from Motorols for just
> the CRT.
>
> Also Hi to Jack from Wilco Electronics. I worked with him during my Icom America years often.
>
> Gary K8IZ
>

# 938. Re: New member

Yahoo group: hp8924
Date: 2012-05-31 20:26:55 UTC
From: Gary
Topic: 935  Message: 938

Hi Brian,

Yes I live in Kirkland...That would be great..I'll be at the SeaPac hamfest this weekend but maybe in a week or so we could do that.

Thanks for that offer.

Gary Fiber K8IZ

--- In hp8924@yahoogroups.com, "Brian" <brian@...> wrote:
>
>
> Gary,
>
> I think you are located in the Seattle area. If you are interested and would like to put your hands on an 8924C and play with it a bit, I live in Snoqualmie, WA. I would be happy to open the shop for you.
>
> Best Regards,
>
> Brian
> KD4WAV
>
> --- In hp8924@yahoogroups.com, "Gary" <garyfiber@> wrote:
> >
> > Hi I am Gary Fiber K8IZ.
> >
> > I am interested in getting a service monitor and have read some good things about these former cellular monitors that also have the ability for two way work.
> >
> > Been looking at Amtronix and its a tough decision between the HP-8924C which they sell refurbished, the E8285A which is cheaper, looks to be tested but not refurbished and the HP 8935 E 6380A which a friend has , I have not seen it personally,and also comes with the RF Tools package.
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> >
> > Gary K8IZ
> >
>

# 939. Re: New member

Yahoo group: hp8924
Date: 2012-05-31 20:34:24 UTC
From: Gary
Topic: 935  Message: 939

I don't think I'd need anything that goes below 15 MHz unless I was working on a HF rig.The HP-8656B will do that in AM anyway and I intend on keeping that. I am mostly interested in two way radio checkout, some duplexor tuning and RF bandpass filter measurements. I have been looking at the New Rigol DSA815-TG spectrun analyzer but the 8924C all fixed up from Amtronix is close to the same price though larger in size. Had a local offer to allow me to have a look at his 8924C and I will likely take him up on that offer in a week or so we when we can work it out. And thanks to you Ralph for the offer of an on the air meeting. Might have to give that a go away since I run mostly mobile HF, might be fun.Oh and thanks for the explainiation of your monitor too. :)

Gary K8IZ

--- In hp8924@yahoogroups.com, Ralph Mowery <ku4pt@...> wrote:
>
> I think I would go with the 8924C unless you need to have a signal generator that is calibrated below 15 MHz. .  The 8924C will go lower, but the power input and output falls off. Everything else is ok.  It comes standard with almost everything, especially if you get one with the 60 or 100 watt input. I bought one off ebay that did not have the higher power input and put in the 60 watt conversion. I think I had about $ 950 in it when I finished.  Some other units may not have all the options you want.  Some of the other units do not have the spectrum analizer  or high stability oscillator.
> I do not have a good way to check the stability of the oscillator, but by tuning in WWV at 20 mhz, the counter is either showing a 0 on the last number or  a 9 or 1 sometimes.
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> The RF Tools can be downloaded from the files section here and put on a pcmcia card if you have a computer that will take the pcmcia cards.  I do not see where they are really that useful except the coax fault locator.  You can do the other functions manually, it just may be easier to use with the RF tools.
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> Main drawback is weight, but I doubt there is much differance in 10 pounds if you have to move them.
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> If there is anything I can tell you about, I can meet you on the air.  Just retired so
around much of the time.
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>
> --- On Thu, 5/31/12, Gary <garyfiber@...> wrote:
>
>
> From: Gary <garyfiber@...>
> Subject: [hp8924] New member
> To: hp8924@yahoogroups.com
> Date: Thursday, May 31, 2012, 1:25 PM
>
>
> Hi I am Gary Fiber K8IZ.
>
> I am interested in getting a service monitor and have read some good things about these
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> Been looking at Amtronix and its a tough decision between the HP-8924C which they sell
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> others?
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> Is it easy to obtain the RF Tools software in the event I purchase a unit that does not
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available short of using an analog computer monitor in
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> The appealing thing about the HP-8935A is it is somewhat portable.
> Like many others dedication a couple of thousand dollars to an instrument is a chunk of
funds, so purchase of a more portable unit is not likely for my purposes today.

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> Looked at N1BS You Tube video's. He did a great job on showing how to use his E8285A though it looks a little slow to tune through frequenies. Had to turn down the computer speaker volume during the
> IC-2100 sinad test though :) When at Icom I had access and did ocassionally use an IFR 1200S monitor. I'll have to take a look at the
> 8920A videos in the files section have not had time yet to do so.
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> Here at work I have access to an old Motorola R-2001C but understand should the CRT go bad its a $1300.00 bill from Motorols for just
> the CRT.
>
> Also Hi to Jack from Wilco Electronics. I worked with him during my Icom America years often.
>
> Gary K8IZ
>

# 940. Re: New member

Yahoo group: hp8924
Date: 2012-06-01 00:13:29 UTC
From: willcoele@ameritech.net
Topic: 935  Message: 940

Hi Gary, welcome to the group.

There are several files in the files section that I uploaded along with others that you will find to be very usefull. Feel free to post your questions to this group. There's always someone with enough expertise that can help you navigate through the menus.

I was worked with an 8920 for years and when I acquired an 8924, operating it was second nature. The technology in Ham Radio equipment has advanced so much, I recent purchased a brand new digital storage oscilloscope. The old Tektronix analog scope just didn't cut it. There's no way you can trouble shoot digital logic using a 2 channel scope. My Agilent DSOX3024 even has a 16 channel digital port where I can use it as a Logic Analyzer. Unfortunately, for what it cost, I could have purchased 5 or 6 8924's.

Jack WA9FVP
Willco Electronics

--- In hp8924@yahoogroups.com, "Gary" <garyfiber@...> wrote:
>
> Hi I am Gary Fiber K8IZ.
>
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> Gary K8IZ
>

# 941. Re: New member

Yahoo group: hp8924
Date: 2012-06-01 00:26:09 UTC
From: Gary
Topic: 935  Message: 941

Hi Jack,

Been a loong time as I have not been to Dayton for a couple of years. I got rid of mt Tek 7623 storage scope and got a Rigol DS1102CA a couple of years ago. I can connect it to a computer via a USB port, control it or download wiat is it reading to a file Pretty nice and almost better than a scope camera on the Old 7000 series mainframe.
No logic analyzer yet though. You are right the rigs have certainly passed me by. Still am pretty good with the old stuff but the newer stuff, just don't have the daily experience I did when working the phones every day.

I'll be around and thanks.

Gary K8IZ

--- In hp8924@yahoogroups.com, "willcoele@..." <willcoele@...> wrote:
>
>
>
> Hi Gary, welcome to the group.
>
> There are several files in the files section that I uploaded along with others that you will find to be very usefull. Feel free to post your questions to this group. There's always someone with enough expertise that can help you navigate through the menus.
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>
> Jack WA9FVP
> Willco Electronics
>
>
>
>
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>
>
> --- In hp8924@yahoogroups.com, "Gary" <garyfiber@> wrote:
> >
> > Hi I am Gary Fiber K8IZ.
> >
> > I am interested in getting a service monitor and have read some good things about these former cellular monitors that also have the ability for two way work.

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> > Also Hi to Jack from Wilco Electronics. I worked with him during my Icom America years often.
> >
> > Gary K8IZ
> >
>

# 942. Another video converter

Yahoo group: hp8924
Date: 2012-06-02 00:38:26 UTC
From: mojoehand
Topic: 942  Message: 942

I know that the GBS 8200 has been reported to work, using an addon sync separator. I thought I'd take a chance on a one-piece unit and got one of these for $20:

http://www.ebay.com/itm/TV-BNC-Composite-S-video-VGA-In-to-PC-VGA-LCD-Out-Converter-Adapter-Box-Black-/180782631245

I tried it on the 8920A at work and got nothing but a blue screen, which is what the converter shows with no video input.

My E8285A arrived today (another story), so I tried the video converter on it. This time I got video, but it is cut off on the left side and bottom, and shifted left/down a bit. This is pretty much the same result that the GBS 8200 gives when feeding the HP video into the component Y connector. Close, but no cigar.

Opening up the converter, I see the following ICs: a Hynix memory chip; a large chip, marked ARK8119DPF (I can't find any info online); a smaller chip marked ARK7113PF (also no info); an Atmel 920 uP; a 74HC86D (Quad 2-input exclusive-or); two 24 MHZ oscillators; miscellaneous discrete parts. Silkscreened on the board is "TV-TO-PC128".

I was hoping that I could find datasheets on the ARK chips, thinking that perhaps a minor part change would make the thing lock onto the HP video properly.

Oh well, it was a $20 experiment. I guess I'll make a sync separator for a GBS 8200 and find a box to put it in.

Joe
W5JG

# 943. E8285A arrived today

Yahoo group: hp8924
Date: 2012-06-02 00:41:23 UTC
From: mojoehand
Topic: 943  Message: 943

The good news - I finally have one. The bad news - it fails several self tests.

I've emailed Rick at Amtronix about this and am waiting for a reply. From what I have read here, I have every expectation that he will make things right.

Joe
W5JG

# 944. RE: [hp8924] E8285A arrived today

Yahoo group: hp8924
Date: 2012-06-02 00:52:16 UTC
From: Brian Swann
Topic: 943  Message: 944

Might just be something came loose in transit. Rick should be able to help out, he has a good reputation for fair dealing. Good luck, and let us know how you make out.
Briann1bs
To: hp8924@yahoogroups.com
From: mojoehand@yahoo.com
Date: Sat, 2 Jun 2012 00:41:23 +0000
Subject: [hp8924] E8285A arrived today

The good news - I finally have one. The bad news - it fails several self tests.

I've emailed Rick at Amtronix about this and am waiting for a reply. From what I have read here, I have every expectation that he will make things right.

Joe

W5JG

# 945. Flash card experiment

Yahoo group: hp8924
Date: 2012-06-02 00:57:06 UTC
From: mojoehand
Topic: 945  Message: 945

I have two linear flash cards that were pulled from Cisco routers. One is a 4 MB card, branded "Smart". The other is a 16 MB card, branded "Intel Series 2+".

The only computer I have with a PCMCIA slot is an old P3 laptop with Windows XP. XP could not find a driver for either card. Searching the net, I found some drivers.

XP Device Manager was now happy, but XP would not assign a drive letter to either card. If it had, I could have simply dropped files onto the cards and used their full capacity.

The Smart card would fail formatting. I understand that this is likely due to the laptop not providing +12 VDC to the PCMCIA slot.

The Intel card did format (the 2+ cards don't need 12V). However, without drive letter access, I had to use Memory Card Explorer to write the RF Tools image. I wasn't sure if this would work, as everyone here has been using SRAM cards for this. I don't yet have an SRAM card, so I thought I'd try the flash card for the heck of it.

Putting the 16 MB Intel flash card into the E8285A, it is recognized as a 512 KB ROM card. This was to be expected, since I wrote that type of image to the card.

So, until I get an SRAM card, at least I can run the RF Tools from this flash card.

I am still trying to see if there is a way to make XP assign a drive letter to these cards.

Joe
W5JG

# 946. A27 Reference

Yahoo group: hp8924
Date: 2012-06-02 01:39:54 UTC
From: c_day_nz
Topic: 946  Message: 946

The A27 reference module fitted to my 8924C is 08920-61191. Rummaging through my parts I found a high stability reference module from a stripped down E8285 08920-61192 so have fitted this to my 8924C. I run LISTOPS from ROM but it does not show the option installed. I gather I need to load calibration data into the test set which I don't have. Can anyone tell me how I can go about doing this? I'm rather intrigued on how the whole option system works i.e. what needs to be done to tell the analyser and option has been installed & if there is a standard format for updating the alayser for various option ☐ or is each option unique. Finally, does anyone know where I can find a list of all available options ☐ option number, board / module number, etc.

Cheers,

Chris ZL1CVD

# 947. A17 External Memory

Yahoo group: hp8924
Date: 2012-06-02 02:09:06 UTC
From: c_day_nz
Topic: 947  Message: 947

The A17 External Memory board 08924-60194 has a bunch of empty sockets on it. I'm picking this is for a RAM upgrade option. Can anyone confirm this and or advise part number for suitable IC's.

Also, this module has the PCMCIA slot on it. I recently received a PROM card with RF Tools on it. However the analyser doesn't recognise the card (error 85 when trying to access it TESTS or IBASIC). Has anyone experienced any issues with the PCMCIA interface on A17 ☐ have checked for dry joints, broken pins & cleaned contacts. Am awaiting a SDRAM card to confirm operation but thought I'd ask in the mean time.

Cheers,

Chris ZL1CVD

# 948. Re: E8285A arrived today

Yahoo group: hp8924
Date: 2012-06-02 12:11:32 UTC
From: willcoele@ameritech.net
Topic: 943  Message: 948

I had the privilege to meet Rick at the Dayton Hamvention. My first impression, he's a real gentleman.

--- In hp8924@yahoogroups.com, Brian Swann <n1bs@...> wrote:
>
>
>
> Might just be something came loose in transit. Rick should be able to help out, he has a good reputation for fair dealing. Good luck, and let us know how you make out.
> Briann1bs
> To: hp8924@yahoogroups.com
> From: mojoehand@...
> Date: Sat, 2 Jun 2012 00:41:23 +0000
> Subject: [hp8924] E8285A arrived today
>
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>
> The good news - I finally have one. The bad news - it fails several self tests.
>
>
>
> I've emailed Rick at Amtronix about this and am waiting for a reply. From what I have

read here, I have every expectation that he will make things right.
>
>
>
> Joe
>
> W5JG
>

# 949. Re: E8285A arrived today

Yahoo group: hp8924
Date: 2012-06-03 02:00:55 UTC
From: mojoehand
Topic: 943  Message: 949

I heard back from Amtronix. Rick tells me that I have a "converted" unit and that it was flashed with older firmware (to support below 800 MHz), after having newer firmware. I don't know what else (if anything) gets done during the conversion. He tells me that these converted units will fail several of the self tests on the RF menu, but the unit is OK.

I wish I had known these details beforehand. It's disconcerting to get something shipped to me and first thing, it is failing self test.

It's a shame that these tests fail, as HP put such nice self test features in many pieces of equipment. Having them is a great way to have confidence in your test gear.

Joe
W5JG

--- In hp8924@yahoogroups.com, "mojoehand" <mojoehand@...> wrote:
>
> The good news - I finally have one. The bad news - it fails several self tests.
>
> I've emailed Rick at Amtronix about this and am waiting for a reply. From what I have read here, I have every expectation that he will make things right.
>
> Joe
> W5JG
>

# 950. Re: A17 External Memory

Yahoo group: hp8924
Date: 2012-06-04 03:02:56 UTC
From: c_day_nz
Topic: 947  Message: 950

Just a bit more on the empty sockets - 8x 32-PLCC - U12 to U19. The only types of memory type I can find in this package are EPROM, EEPROM & FLASH. I suspect they are for an EPROM or EEPROM option. I wonder if I installed FLASH chips the analyser would see the memory and allow me to read/write to it. As an aside the board also has CXK581000BM-10LL 131072x8 SDRAM, RTC72423 RTC, PCMCIA socket & Panasonic BR-2/3 3V battery. Don't suppose anyone has the circuit?
73s Chris zl1cvd

# 951. Re: E8285A arrived today

Yahoo group: hp8924
Date: 2012-06-05 17:16:39 UTC
From: Gary
Topic: 943  Message: 951

So what do you think Joe have you put the analyzer through some personal radio tests yet? Brian's you tube videos make it look pretty easy to work with.

Gary K8IZ

--- In hp8924@yahoogroups.com, "mojoehand" <mojoehand@...> wrote:
>
> I heard back from Amtronix. Rick tells me that I have a "converted" unit and that it was flashed with older firmware (to support below 800 MHz), after having newer firmware. I don't know what else (if anything) gets done during the conversion. He tells me that these converted units will fail several of the self tests on the RF menu, but the unit is OK.
>
> I wish I had known these details beforehand. It's disconcerting to get something shipped to me and first thing, it is failing self test.
>
> It's a shame that these tests fail, as HP put such nice self test features in many pieces of equipment. Having them is a great way to have confidence in your test gear.
>
> Joe
> W5JG
>
> --- In hp8924@yahoogroups.com, "mojoehand" <mojoehand@> wrote:
> >
> > The good news - I finally have one. The bad news - it fails several self tests.
> >
> > I've emailed Rick at Amtronix about this and am waiting for a reply. From what I have read here, I have every expectation that he will make things right.
> >
> > Joe
> > W5JG
> >
>

# 952. Re: E8285A arrived today

Yahoo group: hp8924
Date: 2012-06-05 19:55:03 UTC
From: mojoehand
Topic: 943  Message: 952

So far, I have only done some preliminary fooling around with it. I had to clear off my work table, which has been buried for months. This grew into a major cleanup and reorganization project. My table is now clear and the E8285A is on a small metal shelf next to the table. I'm going to finish with the cleanup of the rest of my "junk" and hopefully I'll be working a radio by the weekend.

--- In hp8924@yahoogroups.com, "Gary" <garyfiber@...> wrote:
>
> So what do you think Joe have you put the analyzer through some personal radio tests yet? Brian's you tube videos make it look pretty easy to work with.
>
> Gary K8IZ
>
> --- In hp8924@yahoogroups.com, "mojoehand" <mojoehand@> wrote:
> >
> > I heard back from Amtronix. Rick tells me that I have a "converted" unit and that it was flashed with older firmware (to support below 800 MHz), after having newer firmware. I don't know what else (if anything) gets done during the conversion. He tells me that these converted units will fail several of the self tests on the RF menu, but the unit is OK.
> >
> > I wish I had known these details beforehand. It's disconcerting to get something shipped to me and first thing, it is failing self test.
> >
> > It's a shame that these tests fail, as HP put such nice self test features in many pieces of equipment. Having them is a great way to have confidence in your test gear.
> >
> > Joe
> > W5JG
> >
> > --- In hp8924@yahoogroups.com, "mojoehand" <mojoehand@> wrote:
> > >
> > > The good news - I finally have one. The bad news - it fails several self tests.
> > >
> > > I've emailed Rick at Amtronix about this and am waiting for a reply. From what I have read here, I have every expectation that he will make things right.
> > >
> > > Joe
> > > W5JG
> > >
> >
>

# 953. Re: New member

Yahoo group: hp8924
Date: 2012-06-06 21:26:21 UTC
From: Gary
Topic: 935  Message: 953

Brian,

When would it be good for you and I to get together?

Gary K8IZ

--- In hp8924@yahoogroups.com, "Brian" <brian@...> wrote:
>
>
> Gary,
>
> I think you are located in the Seattle area. If you are interested and would like to put your hands on an 8924C and play with it a bit, I live in Snoqualmie, WA. I would be happy to open the shop for you.
>
> Best Regards,
>
> Brian
> KD4WAV
>
> --- In hp8924@yahoogroups.com, "Gary" <garyfiber@> wrote:
> >
> > Hi I am Gary Fiber K8IZ.
> >
> > I am interested in getting a service monitor and have read some good things about these former cellular monitors that also have the ability for two way work.
> >
> > Been looking at Amtronix and its a tough decision between the HP-8924C which they sell refurbished, the E8285A which is cheaper, looks to be tested but not refurbished and the HP 8935 E 6380A which a friend has , I have not seen it personally,and also comes with the RF Tools package.
> >
> > I currently have a HP-8656B sig gen and a 100 MHz scope. I want to do some work with bandpass filters and possibly exercise my GROL from
> > time to time as I approch retirement. Contrary to what my profile says I will tuen 60 this year.
> >
> > Not to start any wars Is there any reason one is better than the
> > others?
> >
> > Is it easy to obtain the RF Tools software in the event I purchase a unit that does not have those?
> >
> > How about the electro luminicent displays, are they holding up? Any replacements available short of using an analog computer monitor in
> > its place?

> >
> > The appealing thing about the HP-8935A is it is somewhat portable.
> > Like many others dedication a couple of thousand dollars to an instrument is a chunk of funds, so purchase of a more portable unit is not likely for my purposes today.
> >
> > Looked at N1BS You Tube video's. He did a great job on showing how to use his E8285A though it looks a little slow to tune through frequenies. Had to turn down the computer speaker volume during the
> > IC-2100 sinad test though :) When at Icom I had access and did ocassionally use an IFR 1200S monitor. I'll have to take a look at the
> > 8920A videos in the files section have not had time yet to do so.
> >
> > Here at work I have access to an old Motorola R-2001C but understand should the CRT go bad its a $1300.00 bill from Motorols for just
> > the CRT.
> >
> > Also Hi to Jack from Wilco Electronics. I worked with him during my Icom America years often.
> >
> > Gary K8IZ
> >
>

# 954. Re: E8285A arrived today

Yahoo group: hp8924
Date: 2012-06-08 13:06:29 UTC
From: Gary
Topic: 943  Message: 954

Joe,

Did Amtronix tell you what serial numbers were best for the E8285A..There is one seller on Ebay who is near me in Bellevue, WA that has 8 of them, wants $1595.00 for one,several have OPT 102. Photo looks like they are pretty clean. But they don't know if the RF generator will generate below 800 MHz.
I am not sure if they all with do that or not.

I sent Amtronix a 2nd email a yesterday but he has not responded. His web page and pricing is a bit confusing. I did ask a week ago about an E8285A and he told me the E8285A sold for $9500.00 I think due to his web page he ment to say $950.00 but I asked him to clarify and how he accepted payment. Also spotted a few E6380A and HP8924C's

Gary K8IZ

--- In hp8924@yahoogroups.com, "mojoehand" <mojoehand@...> wrote:
>
>
>
> So far, I have only done some preliminary fooling around with it. I had to clear off my work table, which has been buried for months. This grew into a major cleanup and reorganization project. My table is now clear and the E8285A is on a small metal shelf next to the table. I'm going to finish with the cleanup of the rest of my "junk" and hopefully I'll be working a radio by the weekend.
>
>
> --- In hp8924@yahoogroups.com, "Gary" <garyfiber@> wrote:
> >
> > So what do you think Joe have you put the analyzer through some personal radio tests yet? Brian's you tube videos make it look pretty easy to work with.
> >
> > Gary K8IZ
> >
> > --- In hp8924@yahoogroups.com, "mojoehand" <mojoehand@> wrote:
> > >
> > > I heard back from Amtronix. Rick tells me that I have a "converted" unit and that it was flashed with older firmware (to support below 800 MHz), after having newer firmware. I don't know what else (if anything) gets done during the conversion. He tells me that these converted units will fail several of the self tests on the RF menu, but the unit is OK.
> > >
> > > I wish I had known these details beforehand. It's disconcerting to get something shipped to me and first thing, it is failing self test.
> > >
> > > It's a shame that these tests fail, as HP put such nice self test features in many pieces of equipment. Having them is a great way to have confidence in your test gear.
> > >

> > > Joe
> > > W5JG
> > >
> > > --- In hp8924@yahoogroups.com, "mojoehand" <mojoehand@> wrote:
> > > >
> > > > The good news - I finally have one. The bad news - it fails several self tests.
> > > >
> > > > I've emailed Rick at Amtronix about this and am waiting for a reply. From what I have read here, I have every expectation that he will make things right.
> > > >
> > > > Joe
> > > > W5JG
> > > >
> > >
> >
>

# 955. Re: E8285A arrived today

Yahoo group: hp8924
Date: 2012-06-08 13:22:32 UTC
From: david
Topic: 943  Message: 955

The firmware needs to be less than A.04.53 to operate below 800Mhz.

David

# 956. RE: [hp8924] Re: E8285A arrived today

Yahoo group: hp8924
Date: 2012-06-08 15:49:58 UTC
From: Brian Swann
Topic: 943  Message: 956

I'm sure it's $950, and not 10X that amount. That's what I paid for mine from Amtronix.
Brian

To: hp8924@yahoogroups.com
From: garyfiber@...
Date: Fri, 8 Jun 2012 13:06:29 +0000
Subject: [hp8924] Re: E8285A arrived today

Joe,

Did Amtronix tell you what serial numbers were best for the E8285A..There is one seller on Ebay who is near me in Bellevue, WA that has 8 of them, wants $1595.00 for one,several have OPT 102. Photo looks like they are pretty clean. But they don't know if the RF generator will generate below 800 MHz.

I am not sure if they all with do that or not.

I sent Amtronix a 2nd email a yesterday but he has not responded. His web page and pricing is a bit confusing. I did ask a week ago about an E8285A and he told me the E8285A sold for $9500.00 I think due to his web page he ment to say $950.00 but I asked him to clarify and how he accepted payment. Also spotted a few E6380A and HP8924C's

Gary K8IZ

--- In hp8924@yahoogroups.com, "mojoehand" <mojoehand@...> wrote:

>

>

>

> So far, I have only done some preliminary fooling around with it. I had to clear off my work table, which has been buried for months. This grew into a major cleanup and reorganization project. My table is now clear and the E8285A is on a small metal shelf next to the table. I'm going to finish with the cleanup of the rest of my "junk" and hopefully I'll be working a radio by the weekend.

>

>

> --- In hp8924@yahoogroups.com, "Gary" <garyfiber@> wrote:

> >

> > So what do you think Joe have you put the analyzer through some personal radio tests yet? Brian's you tube videos make it look pretty easy to work with.

> >

> > Gary K8IZ

> >

> > --- In hp8924@yahoogroups.com, "mojoehand" <mojoehand@> wrote:

> > >

> > > I heard back from Amtronix. Rick tells me that I have a "converted" unit and that it was flashed with older firmware (to support below 800 MHz), after having newer firmware. I don't know what else (if anything) gets done during the conversion. He tells me that these converted units will fail several of the self tests on the RF menu, but the unit is OK.

> > >

> > > I wish I had known these details beforehand. It's disconcerting to get something shipped to me and first thing, it is failing self test.

> > >

> > > It's a shame that these tests fail, as HP put such nice self test features in many pieces of equipment. Having them is a great way to have confidence in your test gear.

> > >

> > > Joe

> > > W5JG

> > >

> > > --- In hp8924@yahoogroups.com, "mojoehand" <mojoehand@> wrote:

> > > >

> > > > The good news - I finally have one. The bad news - it fails several self tests.

> > > >

> > > > I've emailed Rick at Amtronix about this and am waiting for a reply. From what I have read here, I have every expectation that he will make things right.

> > > >

> > > > Joe

> > > > W5JG

> > > >

> > >

> >

>

# 957. Re: E8285A arrived today

Yahoo group: hp8924
Date: 2012-06-08 16:20:01 UTC
From: Gary
Topic: 943  Message: 957

Thanks David..

Gary k8IZ

--- In hp8924@yahoogroups.com, "david" <dave@...> wrote:
>
> The firmware needs to be less than A.04.53 to operate below 800Mhz.
>
> David
>

# 958. Re: E8285A arrived today

Yahoo group: hp8924
Date: 2012-06-09 04:07:38 UTC
From: mojoehand
Topic: 943  Message: 958

No, he did not impart that bit of wisdom to me. I don't know how to tell the difference, especially after it has had newer firmware.

Joe

--- In hp8924@yahoogroups.com, "Gary" <garyfiber@...> wrote:
>
> Joe,
>
> Did Amtronix tell you what serial numbers were best for the E8285A..There is one seller on Ebay who is near me in Bellevue, WA that has 8 of them, wants $1595.00 for one,several have OPT 102. Photo looks like they are pretty clean. But they don't know if the RF generator will generate below 800 MHz.
> I am not sure if they all with do that or not.
>
> I sent Amtronix a 2nd email a yesterday but he has not responded. His web page and pricing is a bit confusing. I did ask a week ago about an E8285A and he told me the E8285A sold for $9500.00 I think due to his web page he ment to say $950.00 but I asked him to clarify and how he accepted payment. Also spotted a few E6380A and HP8924C's
>
> Gary K8IZ
>
>
>
> --- In hp8924@yahoogroups.com, "mojoehand" <mojoehand@> wrote:
> >
> >
> >
> > So far, I have only done some preliminary fooling around with it. I had to clear off my work table, which has been buried for months. This grew into a major cleanup and reorganization project. My table is now clear and the E8285A is on a small metal shelf next to the table. I'm going to finish with the cleanup of the rest of my "junk" and hopefully I'll be working a radio by the weekend.
> >
> >
> > --- In hp8924@yahoogroups.com, "Gary" <garyfiber@> wrote:
> > >
> > > So what do you think Joe have you put the analyzer through some personal radio tests yet? Brian's you tube videos make it look pretty easy to work with.
> > >
> > > Gary K8IZ
> > >
> > > --- In hp8924@yahoogroups.com, "mojoehand" <mojoehand@> wrote:
> > > >
> > > > I heard back from Amtronix. Rick tells me that I have a "converted" unit and that

it was flashed with older firmware (to support below 800 MHz), after having newer firmware. I don't know what else (if anything) gets done during the conversion. He tells me that these converted units will fail several of the self tests on the RF menu, but the unit is OK.
> > > >
> > > > I wish I had known these details beforehand. It's disconcerting to get something shipped to me and first thing, it is failing self test.
> > > >
> > > > It's a shame that these tests fail, as HP put such nice self test features in many pieces of equipment. Having them is a great way to have confidence in your test gear.
> > > >
> > > > Joe
> > > > W5JG
> > > >
> > > > --- In hp8924@yahoogroups.com, "mojoehand" <mojoehand@> wrote:
> > > > >
> > > > > The good news - I finally have one. The bad news - it fails several self tests.
> > > > >
> > > > > I've emailed Rick at Amtronix about this and am waiting for a reply. From what I have read here, I have every expectation that he will make things right.
> > > > >
> > > > > Joe
> > > > > W5JG
> > > > >
> > > > >
> > >
>

# 959. Re: E8285A arrived today

Yahoo group: hp8924
Date: 2012-06-09 04:09:07 UTC
From: mojoehand
Topic: 943  Message: 959

I thought that it had to be A.02.04 or earlier. Mine came with A.02.04 firmware.

Joe

--- In hp8924@yahoogroups.com, "david" <dave@...> wrote:
>
> The firmware needs to be less than A.04.53 to operate below 800Mhz.
>
> David
>

# 960. Re: E8285A arrived today

Yahoo group: hp8924
Date: 2012-06-09 04:11:47 UTC
From: mojoehand
Topic: 943  Message: 960

The following is direct from the "Assembly Level Repair" manual:

Firmware Version: A.01.29 to A.02.04 (100-1000, 1700-2000 MHz)
Firmware Version: A.04.53 and above (800-1000, 1700-2000 MHz)

Joe

--- In hp8924@...m, "mojoehand" <mojoehand@...> wrote:
>
> I thought that it had to be A.02.04 or earlier. Mine came with A.02.04 firmware.
>
> Joe
>
> --- In hp8924@yahoogroups.com, "david" <dave@> wrote:
> >
> > The firmware needs to be less than A.04.53 to operate below 800Mhz.
> >
> > David
> >
>

# 961. E8285 and E6380 questions

Yahoo group: hp8924
Date: 2012-06-09 04:37:49 UTC
From: Tim
Topic: 961  Message: 961

Hi all,

A question for anyone familiar with either the E8285 or E6380...

Can either of them be extended to cover 1296Mhz or will either of them
work at that frequency but with reduced sensitivity or output ?

thanks

Tim

--
VK2XTT :: QF56if :: BMARC :: WIA :: AMSAT-VK :: AMSAT

# 962. HP-8935A / E6380A

Yahoo group: hp8924
Date: 2012-06-09 21:11:46 UTC
From: Gary
Topic: 962  Message: 962

I ended up taking the plunge and purchased a HP-8935A / E6380A. Its slightly more portable than the 8924C or E8285A. It should be here by next weekend if UPS is kind. It was built in 2001 according to the serial number.

I tried to get in touch with Amtronix but he did not answer my 2nd email nor phone call. I suspect he may have been away from his business.
I think he has parts for the E6380A should I need them in the future so I will likely try to do business with him in the future. Now to find a Return Loss bridge so the RF tools work like they should.

Building a Oak Hill research QRP wattmeter today. Looking forward to receiving my new to me test set.

Gary K8IZ

# 963. Re: E8285 and E6380 questions

Yahoo group: hp8924
Date: 2012-06-10 16:01:16 UTC
From: mojoehand
Topic: 961  Message: 963

I just tried this on my E8285A. I can enter the following frequency ranges: 0.000001-1015 MHz, 1700-2000 MHz. Entering any other frequency produces an "Input value out of range" error.

I believe that the firmware locks out the intermediate frequency range.

Joe
W5JG

--- In hp8924@yahoogroups.com, Tim <timt@...> wrote:
>
> Hi all,
>
> A question for anyone familiar with either the E8285 or E6380...
>
> Can either of them be extended to cover 1296Mhz or will either of them
> work at that frequency but with reduced sensitivity or output ?
>
> thanks
>
> Tim
>
>
> --
> VK2XTT :: QF56if :: BMARC :: WIA :: AMSAT-VK :: AMSAT
>

# 964. Firmware

Yahoo group: hp8924
Date: 2012-06-10 16:11:04 UTC
From: mojoehand
Topic: 518  Message: 964

Does anyone have a copy of the A.02.04 firmware for the E8285A? It might be worth a look to see if it can be patched to defeat the lockout on the 1000-1700 MHz frequency range.

Joe
W5JG

# 965. Video success

Yahoo group: hp8924
Date: 2012-06-10 17:46:46 UTC
From: mojoehand
Topic: 965  Message: 965

Using a GBS 8200, as others have, I added a LM1881 sync separator chip. Plugging everything into my newly acquired E8285A, I had video on a 19" LCD monitor. However, it was shifted left and cutoff.

Using the menu selections on the GBS 8200, I adjusted the vertical/horizontal position and width to get the full image on the LCD.

Next was the previously mentioned black level problem. However, I did not have to add resistors to the GBS 8200 to fix this. I lowered the "Clamp st" value several points and the "Clamp sp" value one point to get an acceptably black background on the LCD.

As expected, the upscaling of the image to SVGA resolutions is not perfect. The characters are a bit jagged. Still, things are perfectly readable and this is a worthwhile video upgrade.

Now that I can display the E8285A screen on an LCD, I may open up the unit and disconnect the internal electroluminescent display to prevent further burn in (I'll probably wait until my Amtronix warranty is up, though).

Joe
W5JG

# 966. Re: Video success

Yahoo group: hp8924
Date: 2012-06-10 18:24:36 UTC
From: mojoehand
Topic: 965  Message: 966

I just uploaded a photo of the results. Look in the W5JG folder.

--- In hp8924@yahoogroups.com, "mojoehand" <mojoehand@...> wrote:
>
> Using a GBS 8200, as others have, I added a LM1881 sync separator chip. Plugging everything into my newly acquired E8285A, I had video on a 19" LCD monitor. However, it was shifted left and cutoff.
>
> Using the menu selections on the GBS 8200, I adjusted the vertical/horizontal position and width to get the full image on the LCD.
>
> Next was the previously mentioned black level problem. However, I did not have to add resistors to the GBS 8200 to fix this. I lowered the "Clamp st" value several points and the "Clamp sp" value one point to get an acceptably black background on the LCD.
>
> As expected, the upscaling of the image to SVGA resolutions is not perfect. The characters are a bit jagged. Still, things are perfectly readable and this is a worthwhile video upgrade.
>
> Now that I can display the E8285A screen on an LCD, I may open up the unit and disconnect the internal electroluminescent display to prevent further burn in (I'll probably wait until my Amtronix warranty is up, though).
>
> Joe
> W5JG
>

# 967. Re: Video success

Yahoo group: hp8924
Date: 2012-06-10 23:54:34 UTC
From: Colin Matten
Topic: 965  Message: 967

Hi Joe,

Thanks for the update. I'm thinking about setting this up for my 8921A.

Can you take higher res photo without the flash or from the side so the flash can't be seen and put it in the file / email it to me?

Colin
Australia.

--- In hp8924@yahoogroups.com, "mojoehand" <mojoehand@...> wrote:
>
>
>
> I just uploaded a photo of the results. Look in the W5JG folder.
>

# 968. RF Tools with 8924c

Yahoo group: hp8924
Date: 2012-06-11 00:05:25 UTC
From: Colin Matten
Topic: 581  Message: 968

Attn Aussies

I was going through some old stuff and found some SRAM and PCMCIA flash cards. If there are any Australian's on this list that want to try and get rftools working on their unit, email me off list and I will send you a card to see if they work.

Regards
Colin
vk2kcm@...

On Mon, Jan 23, 2012 at 4:22 AM, willcoele@... <
willcoele@...> wrote:

> **
>
>
> Rf tools runs on the 8924. To load the software into the 8924, you need a
> PCMCIA card, a laptop with a PCMCIA slot or an adapter to read and write to
> the card. The Memory Card Explore Utility in the files section is PC
> software that reads and writes to the PCMCIA card.
>
> There's a document that I uploaded that list control codes that you can
> send from your laptop using the BTS utility, terminal screen.
>
>
> --- In hp8924@yahoogroups.com, Ralph Mowery <ku4pt@...> wrote:
> >
> > Could you give more detail as to how you are able to run the RF tools
> from the laptop ?
> > I am assuming it is the HP RF Tools that is in the files section and not
> the comercial version from the third party.
> >
> > I have the serial port from the 6 pin jack tha looks similar to an 8
> pin eithernet cable going to the laptop and it works as I can print the
> screen to the BTS utilities to the laptop.
> >
> > The RF tools file I have is the bit image file. Does that need to be
> changed somehow on the laptop to work through the serial port ? If so ,
> how ?
> >
> >
> > --- On Sun, 1/22/12, willcoele@... <willcoele@...> wrote:
> >
> >
> > From: willcoele@... <willcoele@...>

>
> > Subject: [hp8924] Re: RF Tools with 8924c
> > To: hp8924@yahoogroups.com
> > Date: Sunday, January 22, 2012, 8:48 AM
> >
> >
> > While executing the Ibasic utilities, with my laptop connected to the
> serial port running the BTS terminal program, I noticed that text is sent
> to the laptop.
> >
> > I was able to copy RF Tools to RAM but there's not enough RAM memory for
> all of the utilities included in the file. My favorite is the save/recall
> utility. You can save all of your setups at once without jumping between
> RAM and CARD. I'm still searching for a way to get data and cursor
> position via the serial port.
> >
>
>
>

# 969. Re: [hp8924] HP-8935A / E6380A

Yahoo group: hp8924
Date: 2012-06-11 01:14:58 UTC
From: Ralph Mowery
Topic: 962  Message: 969

If you want a return loss bridge, look for a Mini-circuits ZFDC-20-5.

It is about 1/3 the cost of the others and works well enough for general testing.

--- On Sat, 6/9/12, Gary <garyfiber@...> wrote:

From: Gary <garyfiber@...>
Subject: [hp8924] HP-8935A / E6380A
To: hp8924@yahoogroups.com
Date: Saturday, June 9, 2012, 5:11 PM

I ended up taking the plunge and purchased a HP-8935A / E6380A. Its slightly more portable than the 8924C or E8285A. It should be here by next weekend if UPS is kind. It was built in 2001 according to the serial number.

I tried to get in touch with Amtronix but he did not answer my 2nd email nor phone call. I suspect he may have been away from his business.
I think he has parts for the E6380A should I need them in the future so I will likely try to do business with him in the future. Now to find a Return Loss bridge so the RF tools work like they should.

Building a Oak Hill research QRP wattmeter today. Looking forward to receiving my new to me test set.

Gary K8IZ

# 970. Re: Video success

Yahoo group: hp8924
Date: 2012-06-11 01:53:20 UTC
From: mojoehand
Topic: 965  Message: 970

If you view it actual size, it is very detailed. Yahoo shows you a much smaller image by default. I took a picture w/o flash and it didn't look as good - very washed out colors.

--- In hp8924@yahoogroups.com, "Colin Matten" <vk2kcm@...> wrote:
>
> Hi Joe,
>
> Thanks for the update. I'm thinking about setting this up for my 8921A.
>
> Can you take higher res photo without the flash or from the side so the flash can't be seen and put it in the file / email it to me?
>
> Colin
> Australia.
>
>
>
> --- In hp8924@yahoogroups.com, "mojoehand" <mojoehand@> wrote:
> >
> >
> >
> > I just uploaded a photo of the results. Look in the W5JG folder.
> >
>

# 971. Re: Video success

Yahoo group: hp8924
Date: 2012-06-11 02:52:58 UTC
From: Colin Matten
Topic: 965  Message: 971

Doh, I forgot about the picture size option at the top.

It looks good on the monitor.

--- In hp8924@yahoogroups.com, "mojoehand" <mojoehand@...> wrote:
>
>
>
> If you view it actual size, it is very detailed. Yahoo shows you a much smaller image by default. I took a picture w/o flash and it didn't look as good - very washed out colors.
>
>
> --- In hp8924@yahoogroups.com, "Colin Matten" <vk2kcm@> wrote:
> >
> > Hi Joe,
> >
> > Thanks for the update. I'm thinking about setting this up for my 8921A.
> >
> > Can you take higher res photo without the flash or from the side so the flash can't be seen and put it in the file / email it to me?
> >
> > Colin
> > Australia.
> >
> >
> >
> > --- In hp8924@yahoogroups.com, "mojoehand" <mojoehand@> wrote:
> > >
> > >
> > >
> > > I just uploaded a photo of the results. Look in the W5JG folder.
> > >
> >
>

# 972. Re: HP-8935A / E6380A

Yahoo group: hp8924
Date: 2012-06-11 03:53:58 UTC
From: Gary
Topic: 962  Message: 972

Thanks for the tip Ralph. I will look at the Mini-Circuits ZFDC-20-5
Only need something to get started with and it does not need to be high power capable especially for receiver filters, cirsuits etc.
Its does not have the high stability oscillator. If I need something like that, I will look for a GPS locked timebase.

Gary K8IZ

--- In hp8924@yahoogroups.com, Ralph Mowery <ku4pt@...> wrote:
>
> If you want a return loss bridge, look for a Mini-circuits ZFDC-20-5.
>
> It is about 1/3 the cost of the others and works well enough for general testing.
>
>
> --- On Sat, 6/9/12, Gary <garyfiber@...> wrote:
>
>
> From: Gary <garyfiber@...>
> Subject: [hp8924] HP-8935A / E6380A
> To: hp8924@yahoogroups.com
> Date: Saturday, June 9, 2012, 5:11 PM
>
>
> I ended up taking the plunge and purchased a HP-8935A / E6380A. Its slightly more portable than the 8924C or E8285A. It should be here by next weekend if UPS is kind. It was built in 2001 according to the serial number.
>
> I tried to get in touch with Amtronix but he did not answer my 2nd email nor phone call. I suspect he may have been away from his business.
> I think he has parts for the E6380A should I need them in the future so I will likely try to do business with him in the future. Now to find a Return Loss bridge so the RF tools work like they should.
>
> Building a Oak Hill research QRP wattmeter today. Looking forward to receiving my new to me test set.
>
> Gary K8IZ
>

# 973. Re: Video success

Yahoo group: hp8924
Date: 2012-06-11 03:57:15 UTC
From: Gary
Topic: 965  Message: 973

Looks nice, you should be able to see that monitor across the room.

Gary K8IZ

--- In hp8924@yahoogroups.com, "mojoehand" <mojoehand@...> wrote:
>
>
>
> If you view it actual size, it is very detailed. Yahoo shows you a much smaller image by default. I took a picture w/o flash and it didn't look as good - very washed out colors.
>
>
> --- In hp8924@yahoogroups.com, "Colin Matten" <vk2kcm@> wrote:
> >
> > Hi Joe,
> >
> > Thanks for the update. I'm thinking about setting this up for my 8921A.
> >
> > Can you take higher res photo without the flash or from the side so the flash can't be seen and put it in the file / email it to me?
> >
> > Colin
> > Australia.
> >
> >
> >
> > --- In hp8924@yahoogroups.com, "mojoehand" <mojoehand@> wrote:
> > >
> > >
> > >
> > > I just uploaded a photo of the results. Look in the W5JG folder.
> > >
> >
>

# 974. Re: HP-8935A / E6380A

Yahoo group: hp8924
Date: 2012-06-11 17:45:28 UTC
From: Gary
Topic: 962  Message: 974

Found one on EBay with N connectors, so I bought it.

Gary K8IZ

--- In hp8924@yahoogroups.com, Ralph Mowery <ku4pt@...> wrote:
>
> If you want a return loss bridge, look for a Mini-circuits ZFDC-20-5.
>
> It is about 1/3 the cost of the others and works well enough for general testing.
>
>
> --- On Sat, 6/9/12, Gary <garyfiber@...> wrote:
>
>
> From: Gary <garyfiber@...>
> Subject: [hp8924] HP-8935A / E6380A
> To: hp8924@yahoogroups.com
> Date: Saturday, June 9, 2012, 5:11 PM
>
>
> I ended up taking the plunge and purchased a HP-8935A / E6380A. Its slightly more portable than the 8924C or E8285A. It should be here by next weekend if UPS is kind. It was built in 2001 according to the serial number.
>
> I tried to get in touch with Amtronix but he did not answer my 2nd email nor phone call. I suspect he may have been away from his business.
> I think he has parts for the E6380A should I need them in the future so I will likely try to do business with him in the future. Now to find a Return Loss bridge so the RF tools work like they should.
>
> Building a Oak Hill research QRP wattmeter today. Looking forward to receiving my new to me test set.
>
> Gary K8IZ
>

# 975. Re: [hp8924] Re: HP-8935A / E6380A

Yahoo group: hp8924
Date: 2012-06-11 18:53:36 UTC
From: Ralph Mowery
Topic: 962  Message: 975

I am not sure how the 8935 is labled as I have the 8924.  However the minicircuits unit will hook up so that the port labled  OUT will go to the output of the 8935 (labled Dupled on the 8924), the Port labled CPL will go to the antenna input, and the port labled IN goes out to the device under test such as a duplexer.

Here is what I got off the internet.

Using the 8924 with a Mini-Circuits ZFDC-20-5 to measure return loss.
The first thing to do is to configure the 8924 for "duplex out" and
"antenna in"and set up the tracking generator for no offset. To measure
return loss hook the "duplex out" on the generator to the "out" connection
of the directional coupler. Then hook the "antenna in" port to "couple" of
the directional coupler. You can now establish the base line on the spectrum
analyzer as this will show infinite SWR or minimum return loss. It should
read about 20 db less than what you are generating. Once you've done this
connect the load or device under test to the "in" port of the coupler. The
space under the base line on the spectrum analyzer is the return loss in
negative db. (Note: this may be counter intuitive to some but we're using
the directional coupler to measure what's coming back as apposed to what's
going out which is what the labels on it are for.)

--- On Mon, 6/11/12, Gary <garyfiber@yahoo.com> wrote:

From: Gary <garyfiber@...>
Subject: [hp8924] Re: HP-8935A / E6380A
To: hp8924@yahoogroups.com
Date: Monday, June 11, 2012, 1:45 PM

Found one on EBay with N connectors, so I bought it.

Gary K8IZ

--- In hp8924@yahoogroups.com, Ralph Mowery <ku4pt@...> wrote:
>
> If you want a return loss bridge, look for a Mini-circuits ZFDC-20-5.
>
> It is about 1/3 the cost of the others and works well enough for general testing.
>
>

# 976. Generating a 1KHz Tone while measuring deviation

Yahoo group: hp8924
Date: 2012-06-13 03:33:10 UTC
From: Bob - AF6D
Topic: 976  Message: 976

I need to generate a 1KHz tone at 0dB into the mic input of a radio while measuring deviation. How can I do this with the 8924C?

Thanks in advance.

# 977. Re: Generating a 1KHz Tone while measuring deviation

Yahoo group: hp8924
Date: 2012-06-13 04:12:42 UTC
From: jyelmgren
Topic: 976  Message: 977

om the TX test screen you can set the tone level and freq. default is 1k this is sent to the output connector on the front panel

--- In hp8924@yahoogroups.com, "Bob - AF6D" <bob@...> wrote:
>
> I need to generate a 1KHz tone at 0dB into the mic input of a radio while measuring deviation. How can I do this with the 8924C?
>
> Thanks in advance.
>

# 978. Re: Generating a 1KHz Tone while measuring deviation

Yahoo group: hp8924
Date: 2012-06-13 13:53:17 UTC
From: Bob - AF6D
Topic: 976  Message: 978

Thank you!

--- In hp8924@yahoogroups.com, "jyelmgren" <jyelmgren@...> wrote:
>
> om the TX test screen you can set the tone level and freq. default is 1k this is sent to the output connector on the front panel
>
> --- In hp8924@yahoogroups.com, "Bob - AF6D" <bob@> wrote:
> >
> > I need to generate a 1KHz tone at 0dB into the mic input of a radio while measuring deviation. How can I do this with the 8924C?
> >
> > Thanks in advance.
> >
>

# 979. Re: Modifying internal 3W attenuator (Assembly A4)

Yahoo group: hp8924
Date: 2012-06-17 07:42:08 UTC
From: c_day_nz
Topic: 478  Message: 979

Just to complete this topic off, file posted HP-8924C_100W_upgrade.pdf outlines how I modified A4 assembly to 100W with a sub US$20 attenuator & various options of how to set it up. Also added some files to Attenuator Calibration folder - 20db cal data and corrected instructions. Cheers..

# 980. Re: [hp8924] Re: Modifying internal 3W attenuator (Assembly A4)

Yahoo group: hp8924
Date: 2012-06-19 19:46:54 UTC
From: plefever@cpinternet.com
Topic: 478  Message: 980

> Just to complete this topic off, file posted
> HP-8924C_100W_upgrade.pdf outlines how I modified A4
> assembly to 100W with a sub US$20 attenuator & various
> options of how to set it up. Also added some files to
> Attenuator Calibration folder - 20db cal data and
> corrected instructions. Cheers..

Chris,

Thank you for sharing your excellent documentation! I just took a look and I may have to go down this road. I'm currently using an additional outboard attenuation which works fine but is a bit cumbersome.

The question I have is did HP/Agilent change the design of the heatsink assembly based on the maximum input power? I assume that there is a thermal sensor on the assembly to alert the user of an over temp situation. Perhaps we just have to live with the reduced duty cycle at high power? An advantage of my outboard attenuator is that I can put a fan on it for long duration durability testing of repeater PA's.

73

Phil Lefever, KB0NES

# 981. Re: [hp8924] Re: Modifying internal 3W attenuator (Assembly A4)

Yahoo group: hp8924
Date: 2012-06-19 21:11:19 UTC
From: Ralph Mowery
Topic: 478  Message: 981

Before I ordered an upgrade off ebay, I asked a similar question to the seller.  I was told the 60 watt upgrade uses the same heatsink as the 3 watt unit.  I think, but not sure about the 100 watt unit uses a differant heatsink.

Anyway, after installing the new attenuator pad on the old heatsink that takes it from 3 watts to 60 watts and the new softwear, my 8924C takes power up to 60 watts for a while and does not alarm.  I have put it to around 100 watts a couple of times and in a very short time( maybe 10 seconds) the over power alarm sounds off.

--- On Tue, 6/19/12, plefever@... <kb0nes@...> wrote:

The question I have is did HP/Agilent change the design of
the heatsink assembly based on the maximum input power? I
assume that there is a thermal sensor on the assembly to
alert the user of an over temp situation. Perhaps we just
have to live with the reduced duty cycle at high power? An
advantage of my outboard attenuator is that I can put a fan
on it for long duration durability testing of repeater PA's.

73

Phil Lefever, KB0NES

# 982. Re: [hp8924] Re: Modifying internal 3W attenuator (Assembly A4)

Yahoo group: hp8924
Date: 2012-06-19 21:45:53 UTC
From: Robert Atkinson
Topic: 478  Message: 982

Hi,
All the 892x units I've seen have the same heatsink. I think the shutdown Ralph has seen is calculated, i.e. the unit measures over 60W so alarms on the measured power level not the temperature. This allows protection without delay. The heatsink does not have a temperature sensor attached to it. I don't know if there is a general overheat sensor in the 8924 but suspect there is somewere.

Robert G8RPI.

---
From: Ralph Mowery <ku4pt@...>
To: hp8924@yahoogroups.com
Sent: Tuesday, 19 June 2012, 22:11
Subject: Re: [hp8924] Re: Modifying internal 3W attenuator (Assembly A4)

Before I ordered an upgrade off ebay, I asked a similar question to the seller.  I was told the 60 watt upgrade uses the same heatsink as the 3 watt unit.  I think, but not sure about the 100 watt unit uses a differant heatsink.

Anyway, after installing the new attenuator pad on the old heatsink that takes it from 3 watts to 60 watts and the new softwear, my 8924C takes power up to 60 watts for a while and does not alarm.  I have put it to around 100 watts a couple of times and in a very short time( maybe 10 seconds) the over power alarm sounds off.

--- On Tue, 6/19/12, plefever@... <kb0nes@cpinternet.com> wrote:

The question I have is did HP/Agilent change the design of
>the heatsink assembly based on the maximum input power? I
>assume that there is a thermal sensor on the assembly to
>alert the user of an over temp situation. Perhaps we just
>have to live with the reduced duty cycle at high power? An
>advantage of my outboard attenuator is that I can put a fan
>on it for long duration durability testing of repeater PA's.
>
>73
>
>Phil Lefever, KB0NES
>
>
>

# 983. Re: [hp8924] Re: Modifying internal 3W attenuator (Assembly A4)

Yahoo group: hp8924
Date: 2012-06-20 01:16:34 UTC
From: Ralph Mowery
Topic: 478  Message: 983

I do not know where the temperature sensor is except it is not on the heat sink where the power attenuator is.  From this I guess that the sensor puts out  a voltage and as you change the attenuator, the eeprom calibration number changes.

Here is what the service manual says about the power detection:

RF Power Measurement
The A5 Input assembly's power splitter has one port terminated by a 50Ω load with a diode peak detector across it and a temperature sensor near it. The output of the diode detector is sent to the A37 Measurement assembly where it is measured. The A16 Host Controller converts the measured value to RF power and displays it.
A temperature sensor detects the presence of too much power at the RF IN/OUT connector. The output of the sensor is a DC voltage proportional to RF power. This voltage is measured by the A37 Measurement assembly, and the value is compared to a reference limit by the A16 Host Controller. The Controller displays an overpower message if the voltage goes above the limit. The temperature sensor is also used to temperature-compensate the RF power measurement.
Accuracy is ensured using factory-generated calibration data stored in EEPROM. Unlike the level-control calibration data for the RF Generator, the calibration data is mathematically applied to the measurement results by the A16 Host Controller. The following assemblies have calibration data which affects RF power measurement:
• A4 Attenuator
• A5 Input
• A37 Measurement

--- On Tue, 6/19/12, Robert Atkinson <robert8rpi@...> wrote:

From: Robert Atkinson <robert8rpi@yahoo.co.uk>
Subject: Re: [hp8924] Re: Modifying internal 3W attenuator (Assembly A4)
To: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
Date: Tuesday, June 19, 2012, 5:45 PM

Hi,
All the 892x units I've seen have the same heatsink. I think the shutdown Ralph has seen is calculated, i.e. the unit measures over 60W so alarms on the measured power level not the temperature. This allows protection without delay. The heatsink does not have a temperature sensor attached to it. I don't know if there is a general overheat sensor in the 8924 but suspect there is somewere.

Robert G8RPI.

# 984. Re: [hp8924] Re: Modifying internal 3W attenuator (Assembly A4)

Yahoo group: hp8924
Date: 2012-06-20 01:27:11 UTC
From: Ralph Mowery
Topic: 478  Message: 984

I finally did find the over power temperature sensor.  Really a block diagram and it shows it on a circuit board .  Looks like the input goes through the high power attenuator, then a low power attenuator/spliter and to a resistor.  The heat of that resistor is measured. Must be a very  sensitive heat sensor by the time the power gets to that point.

--- On Tue, 6/19/12, Robert Atkinson <robert8rpi@...> wrote:

From: Robert Atkinson <robert8rpi@...>
Subject: Re: [hp8924] Re: Modifying internal 3W attenuator (Assembly A4)
To: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
Date: Tuesday, June 19, 2012, 5:45 PM

Hi,
All the 892x units I've seen have the same heatsink. I think the shutdown Ralph has seen is calculated, i.e. the unit measures over 60W so alarms on the measured power level not the temperature. This allows protection without delay. The heatsink does not have a temperature sensor attached to it. I don't know if there is a general overheat sensor in the 8924 but suspect there is somewere.

Robert G8RPI.

# 985. Re: [hp8924] Re: Modifying internal 3W attenuator (Assembly A4)

Yahoo group: hp8924
Date: 2012-06-20 06:30:56 UTC
From: Robert Atkinson
Topic: 478  Message: 985

Hi Ralph,
Interesting. Sounds almost like they have a thermistor type power head on the board. I wonder if they use it in conjunction with the diode sensor to calculate the power. As its after two attenuators is is effectivly a power sensor rather than a over temperature of the attenuator. Cause or effect.
Nice work on the circuit tracing.

Robert G8RPI.

---
From: Ralph Mowery <ku4pt@...>
To: hp8924@yahoogroups.com
Sent: Wednesday, 20 June 2012, 2:27
Subject: Re: [hp8924] Re: Modifying internal 3W attenuator (Assembly A4)

I finally did find the over power temperature sensor.  Really a block diagram and it shows it on a circuit board .  Looks like the input goes through the high power attenuator, then a low power attenuator/spliter and to a resistor.  The heat of that resistor is measured. Must be a very  sensitive heat sensor by the time the power gets to that point.
--- On Tue, 6/19/12, Robert Atkinson <robert8rpi@...> wrote:

>From: Robert Atkinson <robert8rpi@...>
>Subject: Re: [hp8924] Re: Modifying internal 3W attenuator (Assembly A4)
>To: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
>Date: Tuesday, June 19, 2012, 5:45 PM
>
>
>Hi,
>All the 892x units I've seen have the same heatsink. I think the shutdown Ralph has seen is calculated, i.e. the unit measures over 60W so alarms on the measured power level not the temperature. This allows protection without delay. The heatsink does not have a temperature sensor attached to it. I don't know if there is a general overheat sensor in the 8924 but suspect there is somewere.
>
>
>Robert G8RPI.
>

# 986. Re: [hp8924] Re: Modifying internal 3W attenuator (Assembly A4)

Yahoo group: hp8924
Date: 2012-06-20 15:50:18 UTC
From: plefever@cpinternet.com
Topic: 478  Message: 986

Guys, thanks for the good discussion on this.

I have used a couple of monitors in the past and I was pretty sure that they had sensors on the heatsink. Of course I managed to get them to light up...

I'm going to order one of the 20db pads and go from there. Even if it only gets me to a short term 60w input that allows a lot more range without mucking about with the external pad. I may have a 250w 6db external attenuator somewhere too.

When I get in there I will take a close look at the heatsink assembly. I manage a machine shop so perhaps I can make a modified attenuator mount or a copper spreader to attempt to improve things thermally.

Speaking of machining and the 8624, my unit has a badly cracked rear panel foot. I was considering making some new feet for mine machined from solid Delrin, I wonder if anyone else could use replacement feet for their units?

73

Phil Lefever, KB0NES

> I finally did find the over power temperature sensor.
> Really a block diagram and it shows it on a circuit board
> .  Looks like the input goes through the high power
> attenuator, then a low power attenuator/spliter and to a
> resistor.  The heat of that resistor is measured.
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> to that point.
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> <robert8rpi@...> wrote:
>
>
> From: Robert Atkinson <robert8rpi@...>
> Subject: Re: [hp8924] Re: Modifying internal 3W attenuator
> (Assembly A4) To: "hp8924@yahoogroups.com"
> <hp8924@yahoogroups.com> Date: Tuesday, June 19, 2012,
> 5:45 PM
>
>

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> Hi,
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> level not the temperature. This allows protection without
> delay. The heatsink does not have a temperature sensor
> attached to it. I don't know if there is a general
> overheat sensor in the 8924 but suspect there is somewere.
>
>
> Robert G8RPI.
>
>
>

# 987. Replacement Feet

Yahoo group: hp8924
Date: 2012-06-20 20:03:02 UTC
From: c_day_nz
Topic: 478  Message: 987

Hi Phil,
Same here - smashed up rear feet. I would be interested assuming the price is right.
Cheers,
Chris ZL1CVD

>
> Speaking of machining and the 8624, my unit has a badly
> cracked rear panel foot. I was considering making some new
> feet for mine machined from solid Delrin, I wonder if anyone
> else could use replacement feet for their units?
>
> 73
>
> Phil Lefever, KB0NES
>

# 988. Re: [hp8924] Replacement Feet

Yahoo group: hp8924
Date: 2012-06-20 20:47:55 UTC
From: plefever@cpinternet.com
Topic: 478  Message: 988

Hi guys,

Well its interesting to get a few requests for feet, I wondered if breakage might not be common. I purchased my 8924 with a broken foot but they seem fragile and age may not be helping in this regard. Of course, in their defense, HP never really designed these beasties to be portable...

I haven't thought of pricing yet, there are a number of variables, most of which are how many sets we'd run. I'd like to offer them to the community at "hobbiest" pricing so I would do what I could in this regard. My goal is to only pay the cost of the material an operating costs of the shop. The design I have in mind would be that they be fully CNC machined from solid blocks of either Delrin or possibly Nylon. These would NEVER break, I'd probably offer a lifetime breakage warranty!. The downside is that I would guess they may be ~$80 a set, let me work some numbers and price out the material.

I wonder if there are any other HP/Agilent instruments that use the same feet that might have owners interested in replacements also. The more that could be run the more the setup and one-time costs can be amortized across all the parts reducing the pricing.

73

Phil Lefever
Burnsville, MN

> Hi Phil,
> Same here - smashed up rear feet. I would be interested
> assuming the price is right. Cheers,
> Chris ZL1CVD

# 989. Power on/off switch not working

Yahoo group: hp8924
Date: 2012-06-21 00:20:33 UTC
From: zigs68
Topic: 989  Message: 989

Hi - I have read posts about intermittent power up issues but this one is perhaps different. I plug in the 8924 I have and with the power button off (fully out) the unit powers up. And you are not able to power down the unit using the power button other than by disconnecting the ac line cord. Its like the power button is not connected somehow. No errors, etc were noticed when the unit was running with this issue and the functions I tried seem to all work fine.

Does anybody have any ideas on what happened? Dod the power switch just go bad or does this indicate more of a problem? The unit was sitting on the bench and has not been moved for months (no rough handling). I have the unit now on a power strip by itself so if all I have to do is switch ac power from the strip to power up and down that is not the worst thing.

# 990. Re: Replacement Feet

Yahoo group: hp8924
Date: 2012-06-21 07:51:03 UTC
From: wb6dgn
Topic: 478  Message: 990

Add me to the list. Mine are not unusable as yet but they're getting pretty shabby.
Tom

--- In hp8924@yahoogroups.com, "c_day_nz" <c.day@...> wrote:
>
> Hi Phil,
> Same here - smashed up rear feet. I would be interested assuming the price is right.
> Cheers,
> Chris ZL1CVD
>
>
> >
> > Speaking of machining and the 8624, my unit has a badly
> > cracked rear panel foot. I was considering making some new
> > feet for mine machined from solid Delrin, I wonder if anyone
> > else could use replacement feet for their units?
> >
> > 73
> >
> > Phil Lefever, KB0NES
> >
>

# 991. Measuring Audio Output waveform, etc.

Yahoo group: hp8924
Date: 2012-06-21 15:12:01 UTC
From: Bob - AF6D
Topic: 991  Message: 991

How does someone connect to the 8924C to measure the waveform and frequency of audio? I am trying to set my external frequency generator for transmitter tuning and I don't see oscilloscope-like features on this thing.

Thank you in advance.

# 992. Re: [hp8924] Measuring Audio Output waveform, etc.

Yahoo group: hp8924
Date: 2012-06-21 16:06:57 UTC
From: Robert Atkinson
Topic: 991  Message: 992

Hi Bob,
You use the audio input BNC on the right hand side of the front panel. Then access the AF analyser and / or oscilloscope screens through the menus. Don't forget to select the external AF input, the default is the output of the receiver (TX Test)

As has been mentioned before, reading the 8920B (or 8920A) manual and guides (see files section or Agilent website) gives a better idea of how to use the 8924C for non CDMA appplications. The 8924C manual is CDMA centric, but the unit is basically an 8920B.

Robert G8RPI.

---
From: Bob - AF6D <bob@...>
To: hp8924@yahoogroups.com
Sent: Thursday, 21 June 2012, 16:12
Subject: [hp8924] Measuring Audio Output waveform, etc.

How does someone connect to the 8924C to measure the waveform and frequency of audio? I am trying to set my external frequency generator for transmitter tuning and I don't see oscilloscope-like features on this thing.

Thank you in advance.

# 993. RE: [hp8924] Power on/off switch not working

Yahoo group: hp8924
Date: 2012-06-21 18:01:00 UTC
From: Mike, KD7MG
Topic: 989  Message: 993

What you are describing is identical to how mine is currently behaving. It was fine when I first got it, but this issue started showing up after I had pulled the covers off and reseated a few boards to fix another problem. I also did a thorough cleaning and dusting on the inside at the time to improve airflow. I think maybe in the process of doing the above, I must have jostled something else loose.

Mine is rack mounted and it's a pain to pull it out again, but eventually I will. When I do, I plan on using a small shot of DeoxIT on any board and connector contacts in the PS area and see if it's related to something there. (Didn't use DeoxIT this first time I had it apart and I kick myself for not doing that.) I normally use the rack's master power switch anyway, so that's why I haven't been motivated to try and fix this bug yet.

Mike

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of zigs68
Sent: Wednesday, June 20, 2012 6:21 PM
To: hp8924@yahoogroups.com
Subject: [hp8924] Power on/off switch not working

Hi - I have read posts about intermittent power up issues but this one is perhaps different. I plug in the 8924 I have and with the power button off (fully out) the unit powers up. And you are not able to power down the unit using the power button other than by disconnecting the ac line cord. Its like the power button is not connected somehow. No errors, etc were noticed when the unit was running with this issue and the functions I tried seem to all work fine.

Does anybody have any ideas on what happened? Dod the power switch just go bad or does this indicate more of a problem? The unit was sitting on the bench and has not been moved for months (no rough handling). I have the unit now on a power strip by itself so if all I have to do is switch ac power from the strip to power up and down that is not the worst thing.

# 994. Re: [hp8924] Power on/off switch not working

Yahoo group: hp8924
Date: 2012-06-21 18:18:29 UTC
From: zigs68@yahoo.com
Topic: 989  Message: 994

Ok Mike - the concern was that is behavior was a warning of something going bad in time with the unit.  I do not have Deoxit to work on this but if you have been working ok with using your rack power switch then that is some helpful info.

I have not opened up this unit to clean or dust out - just one day the issue happened.

Thanks for the reply - Sig....

---
From: "Mike, KD7MG" <kd7mg@grovesnet.org>
To: hp8924@yahoogroups.com
Sent: Thursday, June 21, 2012 2:01 PM
Subject: RE: [hp8924] Power on/off switch not working

What you are describing is identical to how mine is currently behaving. It was fine when I first got it, but this issue started showing up after I had pulled the covers off and reseated a few boards to fix another problem. I also did a thorough cleaning and dusting on the inside at the time to improve airflow. I think maybe in the process of doing the above, I must have jostled something else loose.

Mine is rack mounted and it’s a pain to pull it out again, but eventually I will. When I do, I plan on using a small shot of DeoxIT on any board and connector contacts in the PS area and see if it’s related to something there. (Didn’t use DeoxIT this first time I had it apart and I kick myself for not doing that.) I normally use the rack’s master power switch anyway, so that’s why I haven’t been motivated to try and fix this bug yet.

Mike

From:hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of zigs68
Sent: Wednesday, June 20, 2012 6:21 PM
To: hp8924@yahoogroups.com
Subject: [hp8924] Power on/off switch not working
Hi - I have read posts about intermittent power up issues but this one is perhaps different. I plug in the 8924 I have and with the power button off (fully out) the unit powers up. And you are not able to power down the unit using the power button other than by disconnecting the ac line cord. Its like the power button is not connected somehow. No errors, etc were noticed when the unit was running with this issue and the functions I tried seem to all work fine.

Does anybody have any ideas on what happened? Dod the power switch just go bad or does this indicate more of a problem? The unit was sitting on the bench and has not been moved for months (no rough handling). I have the unit now on a power strip by itself so if all I have to do is switch ac power from the strip to power up and down that is not the worst thing.

# 995. Re: Replacement Feet

Yahoo group: hp8924
Date: 2012-06-21 23:09:45 UTC
From: 1137
Topic: 478  Message: 995

Add me to that list for a set of feet, please.

Rich. Vanderwerker
N9EMS

--- In hp8924@yahoogroups.com, "plefever@..." <kb0nes@...> wrote:
>
> Hi guys,
>
> Well its interesting to get a few requests for feet, I
> wondered if breakage might not be common. I purchased my
> 8924 with a broken foot but they seem fragile and age may
> not be helping in this regard. Of course, in their defense,
> HP never really designed these beasties to be portable...
>
> I haven't thought of pricing yet, there are a number of
> variables, most of which are how many sets we'd run. I'd
> like to offer them to the community at "hobbiest" pricing so
> I would do what I could in this regard. My goal is to only
> pay the cost of the material an operating costs of the shop.
> The design I have in mind would be that they be fully CNC
> machined from solid blocks of either Delrin or possibly
> Nylon. These would NEVER break, I'd probably offer a
> lifetime breakage warranty!. The downside is that I would
> guess they may be ~$80 a set, let me work some numbers and
> price out the material.
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> I wonder if there are any other HP/Agilent instruments that
> use the same feet that might have owners interested in
> replacements also. The more that could be run the more the
> setup and one-time costs can be amortized across all the
> parts reducing the pricing.
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> Phil Lefever
> Burnsville, MN
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> > Hi Phil,
> > Same here - smashed up rear feet. I would be interested
> > assuming the price is right. Cheers,
> > Chris ZL1CVD
>

# 996. Amtronix

Yahoo group: hp8924
Date: 2012-06-22 15:33:06 UTC
From: Gary
Topic: 996  Message: 996

Is Amtronix still in business?
I wrote him on 6-6-2012 at rab@... and again on 6-19-2010 at sales2@..., there was a telephone call in the middle of those two emails. No response to date from them. He missed out of a sale of a monitor as I purchased a E6380A from Accusource due to his not responding.

I wrote last to ask about possible parts and firmware upgrades for the E6380A as he seems to be the knowledgeable person on the HP equipment and has some in stock according to his web page.

Well anyway the E6380A came and it seems to operate nicely though have only tested a 220 MHz transceiver and did the internal self tests. The RF in connector had a broken leaf in the center but Accusource had a unit they were able to remove the N-SMA adaptor from and its on the way to me now.

Are any of you using a GPSDO to frequency lock your monitors? Seems like tha might be a good way to assure calibration. I see some homebrew timebases using an HP 10 MHz oscillator and GPS anyone built up one of those here?

Gary K8IZ

# 997. Re: [hp8924] Amtronix

Yahoo group: hp8924
Date: 2012-06-22 16:53:58 UTC
From: Robert Atkinson
Topic: 996  Message: 997

Hi Gary,
Don't know about Amtronix, but do about external references.
The 8924C has a very good ovenised (OCXO) reference as standard. The E6380A has a resonable TCXO as standard and a good (not as good as the 8924C's) optional OCXO. If you need the extra stability a GPS disciplined OCXO is the way to go. You can make your own, but if that is your interest and you just want a stable reference, buy a used Trimble Thunderbolt. These are available from China on ebay (http://myworld.ebay.co.uk/fluke.l/ is a known good source). The 8924C does not need one for most applications. Beware precision time and frequency is catching, try time nuts on yahoo groups.

Robert G8RPI.

---
From: Gary <garyfiber@...>
To: hp8924@yahoogroups.com
Sent: Friday, 22 June 2012, 16:33
Subject: [hp8924] Amtronix

Is Amtronix still in business?
I wrote him on 6-6-2012 at rab@... and again on 6-19-2010 at sales2@..., there was a telephone call in the middle of those two emails. No response to date from them. He missed out of a sale of a monitor as I purchased a E6380A from Accusource due to his not responding.

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Are any of you using a GPSDO to frequency lock your monitors? Seems like tha might be a good way to assure calibration. I see some homebrew timebases using an HP 10 MHz oscillator and GPS anyone built up one of those here?

Gary K8IZ

# 998. Re: Amtronix

Yahoo group: hp8924
Date: 2012-06-22 20:03:53 UTC
From: Gary
Topic: 996  Message: 998

Robert,

I guess Amtronix could be on vacation, just seems a little odd not getting some sort of reply. I'll try again later.

I'll look at the Trimble Thunderbolt, have an HP-8656B Sig Gen too and it would be nice to attach them to a common reference I think. Truth be known both are probably as accurate as I require currently.

Thanks for the advice and I will try to not go nuts with frequency and time accuracy ;) hahaha

Gary K8IZ

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Hi Gary,
> Don't know about Amtronix, but do about external references.
> The 8924C has a very good ovenised (OCXO) reference as standard. The E6380A has a resonable TCXO as standard and a good (not as good as the 8924C's) optional OCXO. If you need the extra stability a GPS disciplined OCXO is the way to go. You can make your own, but if that is your interest and you just want a stable reference, buy a used Trimble Thunderbolt. These are available from China on ebay (http://myworld.ebay.co.uk/fluke.l/ is a known good source). The 8924C does not need one for most applications. Beware precision time and frequency is catching, try time nuts on yahoo groups.
>
> Robert G8RPI.
>
>
>
> _____
> From: Gary <garyfiber@...>
> To: hp8924@yahoogroups.com
> Sent: Friday, 22 June 2012, 16:33
> Subject: [hp8924] Amtronix
>
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> Gary K8IZ
>

# 999. Re: Amtronix

Yahoo group: hp8924
Date: 2012-06-23 07:21:48 UTC
From: wb6dgn
Topic: 996  Message: 999

Gary,
My last email correspondence with Rick was on 6/16 and he replied on 6/17. The email address I used is the first of the two you listed (assuming the last half of it, which I can't see -THANKS YAHOO!- , is correct. Sorry to hear he missed out on the sale! Very pleased with all my dealings with Amtronix.
Tom

--- In hp8924@yahoogroups.com, "Gary" <garyfiber@...> wrote:
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> Is Amtronix still in business?
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>
> Gary K8IZ
>

# 1000. Re: Amtronix

Yahoo group: hp8924
Date: 2012-06-23 14:13:13 UTC
From: Gary
Topic: 996  Message: 1000

Yes amtronix.com was the last. Maybe I'll try again using yahoo or gmail as the email client. Its possible my comcast email is not making it I guess. Thanks for the update, everyone says he is good to deal with.

Gary K8IZ

--- In hp8924@yahoogroups.com, "wb6dgn" <wb6dgn@...> wrote:
>
>
>
> Gary,
> My last email correspondence with Rick was on 6/16 and he replied on 6/17. The email address I used is the first of the two you listed (assuming the last half of it, which I can't see -THANKS YAHOO!- , is correct. Sorry to hear he missed out on the sale! Very pleased with all my dealings with Amtronix.
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> > I wrote last to ask about possible parts and firmware upgrades for the E6380A as he seems to be the knowledgeable person on the HP equipment and has some in stock according to his web page.
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> > Are any of you using a GPSDO to frequency lock your monitors? Seems like tha might be a good way to assure calibration. I see some homebrew timebases using an HP 10 MHz oscillator and GPS anyone built up one of those here?
> >
> > Gary K8IZ
> >
>

# 1001. Sad News....Help Needed....Edwin Hickenbotham

Yahoo group: hp8924
Date: 2012-07-02 16:08:37 UTC
From: Ed Hickenbotham
Topic: 1001  Message: 1001

Hello,

I am sorry for reaching you rather too late due to the situation of things right now. My family and I had a trip visiting (MADRID SPAIN), Everything was going on fine until last night when we got attacked by some unknown gunmen. All our money,phones and credit cards was stolen away including some valuable items, It was a terrible experience but the good thing is they didn't hurt anyone or made away with our passports.

We have reported the incident to the local authorities and the consulate but their response was too casual, we were ask to come back in 2weeks time for investigations to be made proper, but the truth is we can't wait till then as we have just got our return flight booked and is leaving in few hours from now but presently having problems sorting out our bills here an and also getting a cab down to the airport, Right now we're financially strapped due to the unexpected robbery attack, Wondering if you can help us with a quick loan to sort our bills and get back home. All we need is (€1,850.00 EUR),  I promise to refund you in full as soon as I return hopefully tomorrow or next. write back now to let me know what you can do.

Thank You,

Edwin.

# 1002. Re: [hp8924] Sad News....Help Needed....Edwin Hickenbotham

Yahoo group: hp8924
Date: 2012-07-02 16:16:33 UTC
From: James Fosse
Topic: 1001  Message: 1002

Ah, Yahoo is being hacked - Again!

spam email follows:

> Hello,
>
> I am sorry for reaching you rather too late due to the situation of things
> right now. My family and I had a trip visiting (MADRID SPAIN), Everything
> was going on fine until last night when we got attacked by some unknown
> gunmen. All our money,phones and credit cards was stolen away including
> some valuable items, It was a terrible experience but the good thing is
> they didn't hurt anyone or made away with our passports.

# 1003. Re: Sad News....Help Needed....Edwin Hickenbotham

Yahoo group: hp8924
Date: 2012-07-04 02:54:04 UTC
From: willcoele@ameritech.net
Topic: 1001  Message: 1003

I'm sure no one in this gorup will but I wonder how many in other groups will send money to that idiot.

--- In hp8924@yahoogroups.com, James Fosse <jafconsulting@...> wrote:
>
> Ah, Yahoo is being hacked - Again!
>
> spam email follows:
>
> > Hello,
> >

# 1004. Re: Power on/off switch not working

Yahoo group: hp8924
Date: 2012-07-04 03:15:17 UTC
From: willcoele@ameritech.net
Topic: 989  Message: 1004

Does the power button on your 8924 snap in and snap out? I occasionally have a similar problem. In the ON position I push in the button and hold it in with my thumb. Then I slide my thumb off to the side and let the button snap out. This normally fixes the problem. With mine, it's a mechanical problem with the switch.

--- In hp8924@yahoogroups.com, "zigs68" <zigs68@...> wrote:
>
>
> Does anybody have any ideas on what happened? Does the power switch just go bad or does this indicate more of a problem? The unit was sitting on the bench and has not been moved for months (no rough handling). I have the unit now on a power strip by itself so if all I have to do is switch ac power from the strip to power up and down that is not the worst thing.
>

# 1005. Re: [hp8924] Re: Sad News....Help Needed....Edwin Hickenbotham

Yahoo group: hp8924
Date: 2012-07-04 13:14:00 UTC
From: Tony Brignole
Topic: 1001  Message: 1005

I have recieved several of these type messages over the past 5 years. General type reply is shown below.

Yes we can help on this end. Know government is slow and not quick. Please send in address to send payment. It will take one or two days to arrange payment.

In late 2010 we caught a guy in Spain when he sent address of Western Union shop to wire money.

----- Original Message -----
From: willcoele@...
To: hp8924@yahoogroups.com
Sent: Tuesday, July 03, 2012 9:54 PM
Subject: [hp8924] Re: Sad News....Help Needed....Edwin Hickenbotham

I'm sure no one in this gorup will but I wonder how many in other groups will send money to that idiot.

--- In hp8924@yahoogroups.com, James Fosse <jafconsulting@...> wrote:
>
> Ah, Yahoo is being hacked - Again!
>
> spam email follows:
>
> > Hello,
> >

# 1006. Re: [hp8924] Re: Power on/off switch not working

Yahoo group: hp8924
Date: 2012-07-05 00:40:57 UTC
From: zigs68@yahoo.com
Topic: 989  Message: 1006

Hi, the switch mechanically does seem to be fine where it snaps on and off, etc. What I did notice is that after use of say 45 minutes to an hour of it being on then the unit can be turned off and then on with the switch. You leave it off for a day with the ac disconnected on the power strip and then when you power up the strip the unit powers up regardless of if the power button is on or off. No other ill effects have been seen yet so I am not sure what gives. Even if the switch seems to be snapping in and out it could still be a mechanical issue perhaps. Thanks for the tip though.

# 1007. Re: [hp8924] Re: Power on/off switch not working

Yahoo group: hp8924
Date: 2012-07-05 01:36:22 UTC
From: Glenn Little WB4UIV
Topic: 989  Message: 1007

The service information that I have for the 8924 does not address what is inside the power supply.
The power supply is probably a switch mode power supply.
That said, all switch mode power supplies have a problem with capacitors.
When the ESR goes up on a capacitor used in filter service the heat dissipated in the capacitor goes up.
This causes the electrolyte to dry out.
This causes the ESR to go up.
This continues until the capacitor fails.
In the process of failing, one of the symptoms that is observed is what you describe.

I suspect that you need to change the electrolytics in your power supply.
Ensure that you use the correct capacitors for the application.

Change the capacitors and your 8924 should work as new.

73
Glenn
WB4UIV

At 08:40 PM 7/4/2012, you wrote:

Hi, the switch mechanically does seem to be fine where it snaps on and off, etc. What I did notice is that after use of say 45 minutes to an hour of it being on then the unit can be turned off and then on with the switch. You leave it off for a day with the ac disconnected on the power strip and then when you power up the strip the unit powers up regardless of if the power button is on or off. No other ill effects have been seen yet so I am not sure what gives. Even if the switch seems to be snapping in and out it could still be a mechanical issue perhaps. Thanks for the tip though.

From: willcoele@... ;
To: ;
Subject: [hp8924] Re: Power on/off switch not working
Sent: Wed, Jul 4, 2012 3:15:17 AM

Does the power button on your 8924 snap in and snap out? I occasionally have a similar problem. In the ON position I push in the button and hold it in with my thumb. Then I slide my thumb off to the side and let the button snap out. This normally fixes the problem. With mine, it's a mechanical problem with the switch.

--- In hp8924@yahoogroups.com, "zigs68" wrote:
>
>
> Does anybody have any ideas on what happened? Does the power switch just go bad or does this indicate more of a problem? The unit was sitting on the bench and has not been moved for months (no rough handling). I have the unit now on a power strip by itself so if all I have to do is switch ac power from the strip to power up and down that is not the worst

thing.
>

# 1008. Re: [hp8924] Re: Sad News....Help Needed....Edwin Hickenbotham

Yahoo group: hp8924
Date: 2012-07-06 07:19:24 UTC
From: Ed Hickenbotham
Topic: 1001  Message: 1008

Sorry Folks,
My Yahoo account was Hi-jacked!
Sorry, I just regained control of my account, but in the process I lost all former emails and my contact addresses. I was a victim of phishing.
Ed

--- On Tue, 7/3/12, willcoele@... <willcoele@...> wrote:

From: willcoele@ameritech.net <willcoele@...>
Subject: [hp8924] Re: Sad News....Help Needed....Edwin Hickenbotham
To: hp8924@yahoogroups.com
Date: Tuesday, July 3, 2012, 8:54 PM

I'm sure no one in this gorup will but I wonder how many in other groups will send money to that idiot.

--- In hp8924@yahoogroups.com, James Fosse <jafconsulting@...> wrote:
>
> Ah, Yahoo is being hacked - Again!
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> spam email follows:
>
> > Hello,
> >

# 1009. E8285A Firmware

Yahoo group: hp8924
Date: 2012-07-06 11:53:37 UTC
From: c_day_nz
Topic: 1009  Message: 1009

Does anyone know where I can get older firmware for the E8285A that will allow operation at frequencies down to 40MHz or less? I believe this is firmware revisions earlier than A.04.5X. I understand the calibration issues. Also, does anyone know how to back up existing firmware? Cheers & 73s, Chris. ZL1CVD.

# 1010. Re: Replacement Feet

Yahoo group: hp8924
Date: 2012-07-07 13:47:22 UTC
From: kg4mav
Topic: 478  Message: 1010

Hi Phil,
Add me to the list also please. I lost a foot getting it from the floor to my desk to start playing....er learning how to use this massive beastie!

TT
Russ, KG4MAV

--- In hp8924@yahoogroups.com, "c_day_nz" <c.day@...> wrote:
>
> Hi Phil,
> Same here - smashed up rear feet. I would be interested assuming the price is right.
> Cheers,
> Chris ZL1CVD
>
>
> >
> > Speaking of machining and the 8624, my unit has a badly
> > cracked rear panel foot. I was considering making some new
> > feet for mine machined from solid Delrin, I wonder if anyone
> > else could use replacement feet for their units?
> >
> > 73
> >
> > Phil Lefever, KB0NES
> >
>

# 1011. Re: [hp8924] Re: Replacement Feet

Yahoo group: hp8924
Date: 2012-07-11 15:33:51 UTC
From: plefever@cpinternet.com
Topic: 478  Message: 1011

Russ,

I feel your pain (mostly in my lower back!). These instruments are big and unwieldy for sure, I cringe at the idea of transporting mine to our repeater site but I do it from time to time.

I pulled my unbroken foot off of my unit and brought it into the shop. We have been pretty busy lately so "government" jobs don't get top billing. I will try to generate a 3d model of the foot and figure out what these will cost. Its good to see a bit of interest in them as the more sets I make the more we can share in setup and programming costs. I'll post again when I have a better handle on it!

73

Phil Lefever, KB0NES
Burnsville, MN

> Hi Phil,
> Add me to the list also please. I lost a foot getting it
> from the floor to my desk to start playing....er learning
> how to use this massive beastie!
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> TT
> Russ, KG4MAV
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> >
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>
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>
> ---
>
> Yahoo! Groups Links
>
>
>

# 1012. Spectrum analyzer sweep rate?

Yahoo group: hp8924
Date: 2012-07-16 07:47:04 UTC
From: jistabout
Topic: 1012  Message: 1012

Hi everyone!

Is there a way to vary the sweep rate on the 8924c spectrum analyzer so as to achieve a bit quicker refresh? Signals which come and go quickly are sometimes not seen, at least on my unit. Thoughts appreciated :).

- Darrell/ka7btv

# 1013. Re: [hp8924] Spectrum analyzer sweep rate?

Yahoo group: hp8924
Date: 2012-07-16 08:06:35 UTC
From: Colin Matten
Topic: 1012  Message: 1013

Hi,

On my 8921a you can't set the sweep or RBW. It is based on the span.

I found the following a a manual.

Span RBW(KHz) Sweep Rate
<50 kHz 0.3 28.6 kHz/second
<200 kHz 1.0 329.0 kHz/second
<1.5 MHz 3.0 3.0 MHz/second
<3 MHz 30.0 21.4 MHz/second
<18 MHz 30.0 36.3 MHz/second
<200 MHz 300.0 257.0 MHz/second
1 GHz 300.0 1.0 GHz/second

Regards

Colin
VK2KCM

On Mon, Jul 16, 2012 at 5:47 PM, jistabout <darrell@...> wrote:

> **
>
>
> Hi everyone!
>
> Is there a way to vary the sweep rate on the 8924c spectrum analyzer so as
> to achieve a bit quicker refresh? Signals which come and go quickly are
> sometimes not seen, at least on my unit. Thoughts appreciated :).
>
> - Darrell/ka7btv
>
>
>

# 1014. Re: Spectrum analyzer sweep rate?

Yahoo group: hp8924
Date: 2012-07-16 14:33:12 UTC
From: Joe Leikhim
Topic: 1012  Message: 1014

The spectrum analyzer has a setting called pk/hold (peak hold) which will capture fleeting signals and freeze them on the display.

--
Joe Leikhim

Leikhim and Associates
Communications Consultants
Oviedo, Florida

www.Leikhim.com

JLeikhim@...

407-982-0446

# 1015. Video converter adapter for 8924C

Yahoo group: hp8924
Date: 2012-07-20 02:41:40 UTC
From: Don
Topic: 1015  Message: 1015

Hi all,

New member here and this is my first post...

I have read with considerable interest the various threads on using an external VGA monitor with the 8924C. Some have successfully used a GBS 8200 card which according to some posts I have read requires a sync separator to be built. Has anyone tried one of these composite video-to-VGA adapters that are plentiful on the bay? Here's a link of one of them. It has a composite video in, S-video in and VGA out. Any reason why it wouldn't work with the 8924c?

Well.. it appears I cannot get the ebay link to show up properly. Here's the item # 270993690088

# 1016. Re: [hp8924] Video converter adapter for 8924C

Yahoo group: hp8924
Date: 2012-07-20 06:18:17 UTC
From: Robert Atkinson
Topic: 1015  Message: 1016

Hi Don,
I don't think this will work. It's only intended for standard 525 line video. There is quite a lot more to the GBS8200, it's intended for applications that used non-standard high resolution CRT monitors like arcade video games and early CNC machines. Adding the sync separator to the GBS8200 is pretty easy. You can buy packaged versions with the sync seperator built in but these are a lot more expensive. try the archive for more info on what ones work.

Robert G8RPI

---
From: Don <donald_s_58103@...>
To: hp8924@yahoogroups.com
Sent: Friday, 20 July 2012, 3:41
Subject: [hp8924] Video converter adapter for 8924C

Hi all,

New member here and this is my first post...

I have read with considerable interest the various threads on using an external VGA monitor with the 8924C. Some have successfully used a GBS 8200 card which according to some posts I have read requires a sync separator to be built. Has anyone tried one of these composite video-to-VGA adapters that are plentiful on the bay? Here's a link of one of them. It has a composite video in, S-video in and VGA out. Any reason why it wouldn't work with the 8924c?

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# 1017. Re: [hp8924] Video converter adapter for 8924C

Yahoo group: hp8924
Date: 2012-07-20 14:57:51 UTC
From: Rix Seacord
Topic: 1015  Message: 1017

Robert
I've probably been searching the wrong way, but where can I find a schematic of the sync separator? Or can you possibly send it to me?
Thanks

Ewing (Rix) Seacord
K2AVP/4/499
eseacord@...

845-628-0892 Home
914-262-9186 Cell
914-233-3886 Skype Notebook

On 7/20/2012 2:18 AM, Robert Atkinson wrote:
> Hi Don,
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> video. There is quite a lot more to the GBS8200, it's intended for
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> *From:* Don <donald_s_58103@...>
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> *Sent:* Friday, 20 July 2012, 3:41
> *Subject:* [hp8924] Video converter adapter for 8924C
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>

>

# 1018. Re: [hp8924] Video converter adapter for 8924C

Yahoo group: hp8924
Date: 2012-07-20 21:32:24 UTC
From: Robert Atkinson
Topic: 1015  Message: 1018

Hi Rix,
There is a circuit (not mine) in the files section < http://f1.grp.yahoofs.com/v1/0MYJUKzMiBC0cZDSkKRjPpqXRDMX0KM4N0p28XQ13mLfQSUdTG6Wm9QSyYh_3893Gk1TdPi-V8TPG9RKUNGq50N_qYqPdssWTA/SyncSeparator.pdf >
I used the LM1881 dedicated chip, slight overkill but I had one, it works and there is no adjustments required. see http://www.ti.com/product/lm1881 Just use the default circuit on page 1 of the datasheet.

HTH,
Robert G8RPI.

---
From: Rix Seacord <eseacord@...>
To: hp8924@yahoogroups.com
Sent: Friday, 20 July 2012, 15:57
Subject: Re: [hp8924] Video converter adapter for 8924C

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>From: Don <donald_s_58103@...>
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# 1019. Re: Video converter adapter for 8924C

Yahoo group: hp8924
Date: 2012-07-21 01:30:44 UTC
From: Don
Topic: 1015  Message: 1019

Thanks for the info, Robert. Too bad it will not work. It would have been a cheap and simple solution if it did.

Don

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Hi Don,
> I don't think this will work. It's only intendedÂ for standard 525 line video. There is quite a lot more to the GBS8200, it's intendedÂ for applications that used non-standard high resolution CRT monitors likeÂ arcade video games andÂ early CNC machines.Â Adding the sync separator to the GBS8200 is pretty easy. You can buy packaged versions with the sync seperator built in but these are a lot more expensive. try the archive for more info on what ones work.
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> To: hp8924@yahoogroups.com
> Sent: Friday, 20 July 2012, 3:41
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# 1020. Re: [hp8924] Video converter adapter for 8924C

Yahoo group: hp8924
Date: 2012-07-21 13:32:10 UTC
From: Rix Seacord
Topic: 1015  Message: 1020

Robert
Thanks much
the first url didn't work. the second did so off to the store and get
what we need.
Thanks again.
Rix

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eseacord@...

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> Robert G8RPI.
>
> ---
> *From:* Rix Seacord <eseacord@...>
> *To:* hp8924@yahoogroups.com
> *Sent:* Friday, 20 July 2012, 15:57
> *Subject:* Re: [hp8924] Video converter adapter for 8924C
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>> *From:* Don <donald_s_58103@...> <mailto:donald_s_58103@...>
>> *To:* hp8924@yahoogroups.com <mailto:hp8924@yahoogroups.com>
>> *Sent:* Friday, 20 July 2012, 3:41
>> *Subject:* [hp8924] Video converter adapter for 8924C
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>>
>>
>>
>
>
>
>

# 1021. Re: [hp8924] Video converter adapter for 8924C

Yahoo group: hp8924
Date: 2012-07-21 14:32:28 UTC
From: Robert Atkinson
Topic: 1015  Message: 1021

Hi Rix, works from here, or just go the the yahho group page and look in "files"

Robert.

_____
From: Rix Seacord <eseacord@...>
To: hp8924@yahoogroups.com
Sent: Saturday, 21 July 2012, 14:32
Subject: Re: [hp8924] Video converter adapter for 8924C

Robert
Thanks much
the first url didn't work. the second did so off to the store and
get what we need.
Thanks again.
Rix

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>
>HTH,
>Robert G8RPI.
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>_____
> From: Rix Seacord <eseacord@verizon.net>
>To: hp8924@yahoogroups.com
>Sent: Friday, 20 July 2012, 15:57
>Subject: Re: [hp8924] Video converter adapter for 8924C
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>I've probably been searching the wrong way,
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>

# 1022. Re: Video converter adapter for 8924C

Yahoo group: hp8924
Date: 2012-07-21 14:34:21 UTC
From: willcoele@ameritech.net
Topic: 1015  Message: 1022

Hi Don,

I uploaded a few photos, in the photo section, showing modifications that I did to the GBS8200. Because of the non-standard (19.2KHz) scan rate, tge GBS8200 has a problem establishing an AGC level. AGC is derived from the equalization pulses during the verticle sync interval. The 19.2 rate deviates form any standard rate and causes composite DC level to drift. I was able to overcome this by adding bias resistors to the RGB inputs. Without the resistors the green (if that's the input you connected) will fade, over time, into a green rastor.

--- In hp8924@yahoogroups.com, "Don" <donald_s_58103@...> wrote:
>
> Thanks for the info, Robert. Too bad it will not work. It would have been a cheap and simple solution if it did.
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> Don
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> --- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@> wrote:
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> > Subject: [hp8924] Video converter adapter for 8924C
> >
> >
> > Â
> > Hi all,
> >
> > New member here and this is my first post...
> >
> > I have read with considerable interest the various threads on using an external VGA monitor with the 8924C. Some have successfully used a GBS 8200 card which according to some posts I have read requires a sync separator to be built. Has anyone tried one of these

composite video-to-VGA adapters that are plentiful on the bay? Here's a link of one of them. It has a composite video in, S-video in and VGA out. Any reason why it wouldn't work with the 8924c?
> >
> > Well.. it appears I cannot get the ebay link to show up properly. Here's the item #
270993690088
> >
>

# 1023. Re: Video converter adapter for 8924C

Yahoo group: hp8924
Date: 2012-07-21 16:49:31 UTC
From: Don
Topic: 1015  Message: 1023

@willcoele

I did see the photos you have posted.. very impressive work, but I am not sure I will be able to reproduce your work (have never worked with surface mount components). How DO you work with such tiny components? This was the reason I was looking for a plug-and-play solution.

Don

--- In hp8924@yahoogroups.com, "willcoele@..." <willcoele@...> wrote:
>
> Hi Don,
>
> I uploaded a few photos, in the photo section, showing modifications that I did to the GBS8200. Because of the non-standard (19.2KHz) scan rate, tge GBS8200 has a problem establishing an AGC level. AGC is derived from the equalization pulses during the verticle sync interval. The 19.2 rate deviates form any standard rate and causes composite DC level to drift. I was able to overcome this by adding bias resistors to the RGB inputs. Without the resistors the green (if that's the input you connected) will fade, over time, into a green rastor.
>

# 1024. Re: [hp8924] Re: Video converter adapter for 8924C

Yahoo group: hp8924
Date: 2012-07-21 17:12:15 UTC
From: Tony Brignole
Topic: 1015  Message: 1024

Don, I bought an MVC007 from Moncotech early this year on ebay it was $150.

It works great and is "plug and play". All I had to do was go into the set up menu and set the vertical and horizontal size and position on the screen.

I have it on a 15 inch VGA monitor and it works great. Just for the hell of it I put it on a Power Point Projector and it did an image about 4 ft square on the white shop wall.

The guy advertised them for around $190 but later discounted them.

My hands are a little too shaky for the SMD stuff and it would have to be mounted in a box etc. I bought one of ebay and later sold it after I looked at the project. Technically it wasn't too tough but the miniature work was an issue.
----- Original Message -----
From: Don
To: hp8924@yahoogroups.com
Sent: Saturday, July 21, 2012 11:49 AM
Subject: [hp8924] Re: Video converter adapter for 8924C

@willcoele

I did see the photos you have posted.. very impressive work, but I am not sure I will be able to reproduce your work (have never worked with surface mount components). How DO you work with such tiny components? This was the reason I was looking for a plug-and-play solution.

Don

--- In hp8924@yahoogroups.com, "willcoele@..." <willcoele@...> wrote:
>
> Hi Don,
>
> I uploaded a few photos, in the photo section, showing modifications that I did to the GBS8200. Because of the non-standard (19.2KHz) scan rate, tge GBS8200 has a problem establishing an AGC level. AGC is derived from the equalization pulses during the verticle sync interval. The 19.2 rate deviates form any standard rate and causes composite DC level to drift. I was able to overcome this by adding bias resistors to the RGB inputs. Without the resistors the green (if that's the input you connected) will fade, over time, into a green rastor.
>

# 1025. Re: Video converter adapter for 8924C

Yahoo group: hp8924
Date: 2012-07-21 17:54:21 UTC
From: Don
Topic: 1015  Message: 1025

Hi Tony,

Took a look at the MVC007 on the bay. The listing states that some soldering may be needed and also that an oscilloscope may be needed. Did you have to do any soldering or use a scope to get yours working?
Also, how is the unit connected to the 8924C? Do you just connect a BNC cable between the video output connector on the 8924c and the "green" BNC connector on the MVC007?

--- In hp8924@yahoogroups.com, "Tony Brignole" <abrigno@...> wrote:
>
> Don, I bought an MVC007 from Moncotech early this year on ebay it was $150.
>
> It works great and is "plug and play". All I had to do was go into the set up menu and set the vertical and horizontal size and position on the screen.
>
> I have it on a 15 inch VGA monitor and it works great. Just for the hell of it I put it on a Power Point Projector and it did an image about 4 ft square on the white shop wall.
>
> The guy advertised them for around $190 but later discounted them.
>
> My hands are a little too shaky for the SMD stuff and it would have to be mounted in a box etc. I bought one of ebay and later sold it after I looked at the project. Technically it wasn't too tough but the miniature work was an issue.

# 1026. Re: [hp8924] Re: Video converter adapter for 8924C

Yahoo group: hp8924
Date: 2012-07-21 18:46:38 UTC
From: Tony Brignole
Topic: 1015  Message: 1026

Don, did nothing. Just used 50 ohm cable [later changed to 75 ohm] connected via BNC to 8924 and then to MVC007. Used VGA from MVC to monitor. It comes out in green.

When it first came up it didn't fill screen but was still larger than 8924. I used MVC007 menu to make it larger and position it so it is full screen and centered. Used it now for several months and it is working fine. I don't sue it all the time and I unplug it from power supply when not in use. It keeps settings so no issue.

I also have laser printer hooked up to 8924. I had a Deskjet 540 but if I didn't use it often the ink would dry out so switched to Laserjet 4 Plus.

----- Original Message -----
From: Don
To: hp8924@yahoogroups.com
Sent: Saturday, July 21, 2012 12:54 PM
Subject: [hp8924] Re: Video converter adapter for 8924C

Hi Tony,

Took a look at the MVC007 on the bay. The listing states that some soldering may be needed and also that an oscilloscope may be needed. Did you have to do any soldering or use a scope to get yours working?
Also, how is the unit connected to the 8924C? Do you just connect a BNC cable between the video output connector on the 8924c and the "green" BNC connector on the MVC007?

--- In hp8924@yahoogroups.com, "Tony Brignole" <abrigno@...> wrote:
>
> Don, I bought an MVC007 from Moncotech early this year on ebay it was $150.
>
> It works great and is "plug and play". All I had to do was go into the set up menu and set the vertical and horizontal size and position on the screen.
>
> I have it on a 15 inch VGA monitor and it works great. Just for the hell of it I put it on a Power Point Projector and it did an image about 4 ft square on the white shop wall.
>
> The guy advertised them for around $190 but later discounted them.
>
> My hands are a little too shaky for the SMD stuff and it would have to be mounted in a box etc. I bought one of ebay and later sold it after I looked at the project. Technically it wasn't too tough but the miniature work was an issue.

# 1027. Re: Video converter adapter for 8924C

Yahoo group: hp8924
Date: 2012-07-21 20:49:53 UTC
From: Don
Topic: 1015  Message: 1027

Thanks for the info, Tony. On the MVC side, which of the BNC connectors do you use? (I think there are five connectors).

--- In hp8924@yahoogroups.com, "Tony Brignole" <abrigno@...> wrote:
>
> Don, did nothing. Just used 50 ohm cable [later changed to 75 ohm] connected via BNC to 8924 and then to MVC007. Used VGA from MVC to monitor. It comes out in green.
>
> When it first came up it didn't fill screen but was still larger than 8924. I used MVC007 menu to make it larger and position it so it is full screen and centered. Used it now for several months and it is working fine. I don't sue it all the time and I unplug it from power supply when not in use. It keeps settings so no issue.
>
> I also have laser printer hooked up to 8924. I had a Deskjet 540 but if I didn't use it often the ink would dry out so switched to Laserjet 4 Plus.
>

# 1028. Re: [hp8924] Re: Video converter adapter for 8924C

Yahoo group: hp8924
Date: 2012-07-22 13:17:59 UTC
From: Tony Brignole
Topic: 1015  Message: 1028

Don I am on th G/Y connector which is second from right side.

I tried several monitors and all sorked great, but presently am using a 13" VGA that I bought at local hamfest for $15. It is plenty big but not overpowering and sits on top of 8924.

----- Original Message -----
From: Don
To: hp8924@yahoogroups.com
Sent: Saturday, July 21, 2012 3:49 PM
Subject: [hp8924] Re: Video converter adapter for 8924C

Thanks for the info, Tony. On the MVC side, which of the BNC connectors do you use? (I think there are five connectors).

--- In hp8924@yahoogroups.com, "Tony Brignole" <abrigno@...> wrote:
>
> Don, did nothing. Just used 50 ohm cable [later changed to 75 ohm] connected via BNC to 8924 and then to MVC007. Used VGA from MVC to monitor. It comes out in green.
>
> When it first came up it didn't fill screen but was still larger than 8924. I used MVC007 menu to make it larger and position it so it is full screen and centered. Used it now for several months and it is working fine. I don't sue it all the time and I unplug it from power supply when not in use. It keeps settings so no issue.
>
> I also have laser printer hooked up to 8924. I had a Deskjet 540 but if I didn't use it often the ink would dry out so switched to Laserjet 4 Plus.
>

# 1029. RF in/out Vs. antenna in

Yahoo group: hp8924
Date: 2012-07-27 14:05:19 UTC
From: Don
Topic: 1029  Message: 1029

I am awaiting delivery of my recently purchased 8924C. In the meantime I have been reading up on the instrument and have a question re: the input ports.

I see that the antenna-in port is rated for a 200 mW input. How does that translate in terms of the transmitter power when checking a transmitter? For instance, I have a Motorola HT90 which is a 4W UHF two-way radio. Can I key it up near the 8924C (with an antenna connected to the antenna-in port) for off-the air measurements? In other words, will the antenna-in port see 4W or is it a much lower number? Sorry if this is a dumb question. If doing that is not advisable, could I connect an antenna to the RF in/out port for the measurements? I do not have an N-to-BNC adapter yet, so a direct connection between the 8924C and the radio is not possible, and I don't want to do a direct connection between the radio and the antenna-in port for obvious reasons.

# 1030. Re: RF in/out Vs. antenna in

Yahoo group: hp8924
Date: 2012-07-27 19:48:40 UTC
From: jistabout
Topic: 1029  Message: 1030

Hi Don, not a dumb question at all.

The antenna port on the 8924c is for just that: an antenna. This port is used for off-air monitoring and measurements. NEVER connect a transmitter directly to the antenna port!

You can indeed use the antenna port for testing of nearby transmitters. Attach a small antenna to the antenna port, and the 8924c will receive signals off-air just like any other receiver. As long as your transmitting antenna is more than about 1 foot from the 8924c, it should work fine.

If you are not measuring transmitter power and just want to evaluate the signal, antenna port works fine. If you need to measure transmitter power, use the RF In/Out port.

You CAN connect a QRP transmitter of 200 milliwatts or less directly to the antenna port for power measurement, I doubt that many folks do this.

Anyway, hope this helps!

- Darrell/KA7BTV

# 1031. Re: Modifying internal 3W attenuator (Assembly A4)

Yahoo group: hp8924
Date: 2012-07-28 00:22:21 UTC
From: William
Topic: 478  Message: 1031

Chris and Group,
I just got one of these attenuators
http://www.ebay.com/itm/Attenuator-RF-FLORIDA-100W-20db-1A-TESTED-WORKING-/190697013394?pt=LH_DefaultDomain_0&hash=item2c666d8092

Once I get a chance I'll pop the top cover & see if I can fit it in the old attenuators place on the heat sink.
Bill Higdon

--- In hp8924@yahoogroups.com, Tim Ahrens <tahrens@...> wrote:
>
> Hi Chris,
>
> According to the manuals, it appears to be 4dB. Of course, you could
> always undo the two SMA connectors,
> and use the 8924 to verify that!
>
> On the TFT display, are you pulling the composite video from the back
> panel? Sounds like a pretty nice
> addition.
>
> Just upgraded to a 100w attenuator (replacement for the 3W), and it was an
> easy modification. I went
> to the trouble of pulling the front panel out, etc, but in the end, I think
> I could have done it all by just pulling
> off the top covers.
>
> Tim
>
> On Mon, Dec 12, 2011 at 4:34 PM, c_day_nz <c_day@...> wrote:
>
> > I have a standard 8924C which handles 3W max. I want to replace the flange
> > attenuator inside unit A4 with a 20dB 100W H100NA20X4 Anaren attenuator.
> > Can anyone confirm if the original HP attenuator is indeed 4dB? With the
> > new attenuator fitted, do I just update the appropriate configuration
> > screen with a 16dB offset? Also, given the new attenuator will handle 100W,
> > will I be OK to measure 100W or would this exceed the test set input? Note
> > my main use for the analyzer is testing / repairing / aligning HF SSB 100W
> > & the odd 2m/70cm 20~50W FM gear. So super accuracy is not a key
> > requirement.
> >
> > AND a huge thanks to group members - I was able to repair my 8924C PSU and
> > am part way through replacing the CRT with a TFT display. Only possible
> > with help from this group.
> >

> > Cheers & 73s
> > Chris ZL1CVD.
> >
> >
> >
> >
> > ---
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
>

# 1033. Re: Modifying internal 3W attenuator (Assembly A4)

Yahoo group: hp8924
Date: 2012-07-28 01:54:37 UTC
From: willcoele@ameritech.net
Topic: 478  Message: 1033

I think you will need at least a 30db attenuator. I'm sure the 3 watt 8924 has a 10 db attenuator. The RF I/O module (A23) has a max rating of 31db or 1.245 watts. With a 10 DB attenuator the level, it will be annenuated to .1245 watts or 21.3dbm . That's enough head room to get 3 watts max input or 24.9 dbm.

With another 10 db of attenuation you will can increase the power by 10 or 12.45 watts. If your goal is to get to 100 watts you will need 30 db of attenaution or 100 times the max (safe) level of 124.5 watts.

at 100 watts your 20db attenuator will attenuate the level to 30 dbm. That's pushing it and it will probably trip the high power alarm.

Jack WA9FVP
Willco Electronics

# 1034. Re: [hp8924] Re: Modifying internal 3W attenuator (Assembly A4)

Yahoo group: hp8924
Date: 2012-07-28 14:06:14 UTC
From: Rix Seacord
Topic: 478  Message: 1034

Gang
Although considerably pricier there are attenuators on ebay that come with a pcmcia card with the calibration data you need. I have a 60 watt att and have no problem with low power handhelds.
With an external attenuator you can calibrate the unit to take it into account to give you true power readings.
good luck

Ewing (Rix) Seacord
K2AVP/4/499
eseacord@...

845-628-0892 Home
914-262-9186 Cell
914-233-3886 Skype Notebook

On 7/27/2012 9:54 PM, willcoele@... wrote:
>
> I think you will need at least a 30db attenuator. I'm sure the 3 watt
> 8924 has a 10 db attenuator. The RF I/O module (A23) has a max rating
> of 31db or 1.245 watts. With a 10 DB attenuator the level, it will be
> annenuated to .1245 watts or 21.3dbm . That's enough head room to get
> 3 watts max input or 24.9 dbm.
>
> With another 10 db of attenuation you will can increase the power by
> 10 or 12.45 watts. If your goal is to get to 100 watts you will need
> 30 db of attenaution or 100 times the max (safe) level of 124.5 watts.
>
> at 100 watts your 20db attenuator will attenuate the level to 30 dbm.
> That's pushing it and it will probably trip the high power alarm.
>
> Jack WA9FVP
> Willco Electronics
>
>

# 1035. Re: [hp8924] Re: Modifying internal 3W attenuator (Assembly A4)

Yahoo group: hp8924
Date: 2012-07-28 16:11:22 UTC
From: Ralph Mowery
Topic: 478  Message: 1035

The service manual I have shows the 3 watt unit to have a 4 db attenuator.

I measured the ohm value of the 3 watt unit I took out of my8924C and across the input and output the resistance is about 22.5 ohms and from each side to ground is about 114 ohms.

Looking at a chart for the PI type, this seems to be close to the 4 db value.

--- On Fri, 7/27/12, willcoele@... <willcoele@...> wrote:

From: willcoele@ameritech.net <willcoele@...>
Subject: [hp8924] Re: Modifying internal 3W attenuator (Assembly A4)
To: hp8924@yahoogroups.com
Date: Friday, July 27, 2012, 9:26 PM

I don't think thats a good idea.  I'm sure a 3 watt 8924 has a built in 10 db attenuator. with 20 db of attenuation, the 10 watts is attenauted to 1 is about 30 dbm or . According to the 8924 service manual, the max input to the

# 1036. Re: Modifying internal 3W attenuator (Assembly A4)

Yahoo group: hp8924
Date: 2012-07-28 18:45:30 UTC
From: c_day_nz
Topic: 478 Message: 1036

The standard 3W 8924 has a 4dB attenuator fitted in side the A4 assembly. A 20dB attenuator fitted works & doesn't trip the high power alarm at 100W. Some may view fitting a 30dB attenuator a safer option but sensistivity and RF generator levels on the port will be 10dB lower. The other consideration is heat. I doubt the A4 assembly heatsink will effectively dissapate 100W for long periods - 60W max for long periods -100W for short periods should be fine.

This is more to prevent heat build up inside the 8924 as its SMPSU dissapates a heck of allot of heat - you will see one of the top inside covers shows a warning about not running it with the covers removed - has a picture of a bomb from memory. I can tell you that if you do run it with no fan connected, the SMPSU gets hot enough to burn your hand after about 10 minutes. I suspect 20 minutes will result in complete failure of the SMPSU. Intersting to note the later model E8285 test set actualy monitors fan speed - if the fans aren't running it won't power up. I suspect this is a later mod.

Cheers & 73s Chris ZL1CVD

# 1037. Re: Modifying internal 3W attenuator (Assembly A4)

Yahoo group: hp8924
Date: 2012-07-28 18:48:46 UTC
From: c_day_nz
Topic: 478  Message: 1037

That should do the job fine bill. May need to mill out the A4 opening a bit more or trim the tabs down like I did (very ugly but it worked). 73s Chris.

--- In hp8924@yahoogroups.com, "William" <willard561@...> wrote:
>
> Chris and Group,
> I just got one of these attenuators
> http://www.ebay.com/itm/Attenuator-RF-FLORIDA-100W-20db-1A-TESTED-WORKING-/190697013394?pt=LH_DefaultDomain_0&hash=item2c666d8092
>
> Once I get a chance I'll pop the top cover & see if I can fit it in the old attenuators place on the heat sink.
> Bill Higdon
>
> --- In hp8924@yahoogroups.com, Tim Ahrens <tahrens@> wrote:
> >
> > Hi Chris,
> >
> > According to the manuals, it appears to be 4dB. Of course, you could
> > always undo the two SMA connectors,
> > and use the 8924 to verify that!
> >
> > On the TFT display, are you pulling the composite video from the back
> > panel? Sounds like a pretty nice
> > addition.
> >
> > Just upgraded to a 100w attenuator (replacement for the 3W), and it was an
> > easy modification. I went
> > to the trouble of pulling the front panel out, etc, but in the end, I think
> > I could have done it all by just pulling
> > off the top covers.
> >
> > Tim
> >
> > On Mon, Dec 12, 2011 at 4:34 PM, c_day_nz <c_day@> wrote:
> >
> > > I have a standard 8924C which handles 3W max. I want to replace the flange
> > > attenuator inside unit A4 with a 20dB 100W H100NA20X4 Anaren attenuator.
> > > Can anyone confirm if the original HP attenuator is indeed 4dB? With the
> > > new attenuator fitted, do I just update the appropriate configuration
> > > screen with a 16dB offset? Also, given the new attenuator will handle 100W,
> > > will I be OK to measure 100W or would this exceed the test set input? Note
> > > my main use for the analyzer is testing / repairing / aligning HF SSB 100W
> > > & the odd 2m/70cm 20~50W FM gear. So super accuracy is not a key
> > > requirement.

> > >
> > > AND a huge thanks to group members - I was able to repair my 8924C PSU and
> > > am part way through replacing the CRT with a TFT display. Only possible
> > > with help from this group.
> > >
> > > Cheers & 73s
> > > Chris ZL1CVD.
> > >
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> > > Yahoo! Groups Links
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# 1038. Re: [hp8924] Re: Modifying internal 3W attenuator (Assembly A4)

Yahoo group: hp8924
Date: 2012-07-28 19:19:57 UTC
From: Ralph Mowery
Topic: 478  Message: 1038

Before I ordered a 60 watt upgrade from RFE TOYS I asked about it.  I was told the same heatsink was used on all the units form 3 watts up to 60 watts and the resistor pad was all that was differant.  The 100 watt unit would need a differant kind of heatsink.

I guess that if the resistor pad ( or one of the ones similar to it listed on ebay) for 100 watts would fit, it could be used, but still the heatsink will only be good for 60 watts and any more than that would still overheat after a while.  The 60 watt unit will take around 100 watts for about 10 seconds or so with a cool down period.  Looking over the diagram of the input circuit, the over power warning seems to come from an input module and not the heatsink so you could over heat that and not get the warning if a higher power/more db loss attenuator was used.

--- On Sat, 7/28/12, c_day_nz <c.day@...> wrote:

From: c_day_nz <c.day@...>
Subject: [hp8924] Re: Modifying internal 3W attenuator (Assembly A4)
To: hp8924@yahoogroups.com
Date: Saturday, July 28, 2012, 2:45 PM

The standard 3W 8924 has a 4dB attenuator fitted in side the A4 assembly. A 20dB attenuator fitted works & doesn't trip the high power alarm at 100W. Some may view fitting a 30dB attenuator a safer option but sensistivity and RF generator levels on the port will be 10dB lower. The other consideration is heat. I doubt the A4 assembly heatsink will effectively dissapate 100W for long periods - 60W max for long periods -100W for short periods should be fine.

# 1039. Re: Modifying internal 3W attenuator (Assembly A4)

Yahoo group: hp8924
Date: 2012-07-29 02:22:19 UTC
From: willcoele@ameritech.net
Topic: 478  Message: 1039

First I would like to apologies for the wrong information. The service manual that I have only shows the part number no parts specs. A 4 db attenuator would bring it within the 31dbm range.

I prefer using an external 20db attenuator. it very safe and I dont have to worry about over heating the unit. As for the genetator level, you can always use the duplex port. it bypases the attenuator.

--- In hp8924@yahoogroups.com, Ralph Mowery <ku4pt@...> wrote:
>
>
> Before I ordered a 60 watt upgrade from RFE TOYS I asked about it.  I was told the same heatsink was used on all the units form 3 watts up to 60 watts and the resistor pad was all that was differant.  The 100 watt unit would need a differant kind of heatsink.
>
> I guess that if the resistor pad ( or one of the ones similar to it listed on ebay) for 100 watts would fit, it could be used, but still the heatsink will only be good for 60 watts and any more than that would still overheat after a while.  The 60 watt unit will take around 100 watts for about 10 seconds or so with a cool down period.  Looking over the diagram of the input circuit, the over power warning seems to come from an input module and not the heatsink so you could over heat that and not get the warning if a higher power/more db loss attenuator was used.
>
>
>
>
> --- On Sat, 7/28/12, c_day_nz <c.day@...> wrote:
>
>
> From: c_day_nz <c.day@...>
> Subject: [hp8924] Re: Modifying internal 3W attenuator (Assembly A4)
> To: hp8924@yahoogroups.com
> Date: Saturday, July 28, 2012, 2:45 PM
>
>
> The standard 3W 8924 has a 4dB attenuator fitted in side the A4 assembly. A 20dB attenuator fitted works & doesn't trip the high power alarm at 100W. Some may view fitting a 30dB attenuator a safer option but sensistivity and RF generator levels on the port will be 10dB lower. The other consideration is heat. I doubt the A4 assembly heatsink will effectively dissapate 100W for long periods - 60W max for long periods -100W for short periods should be fine.
>

# 1040. CRT image size question

Yahoo group: hp8924
Date: 2012-07-30 22:55:43 UTC
From: Don
Topic: 1040  Message: 1040

Hi all,

Just received my 8924C. Thankfully, it survived UPS handling! A very quick cursory check indicates that the unit powers up and at least the spectrum analyzer part appears to be functioning properly. However, I have noted two immediate issues that I am hoping will have easy fixes:

1. The CRT image is horizontally compressed (image does not extend to the edges but is horizontally squished although centered.

2. When I press the power on-off button to turn the unit off, it powers down, but then immediately powers back up again. So, the only way I can turn power off is to pull the plug on the unit.

Any ideas on how I can rectify these problems?

# 1041. Re: CRT image size question

Yahoo group: hp8924
Date: 2012-07-31 02:32:39 UTC
From: Don
Topic: 1040  Message: 1041

On playing with it further, I have found that it has more problems :(
When I turn it on, there is nothing on the screen for perhaps 7-9 out of 10 times that I power it up. On the remaining tries, the screen comes on and the brightness varies from very dim, barely visible, to fairly bright and clear (with the brightness level set on max in configuration). Again, I am unable to turn the unit off using the power button on the front panel. It shuts down but restarts again almost immediately (after about a second). Does this sound like a power supply problem? Once it powers on properly, it seems to work OK. I ran through the verification tests and everything looks OK. Any help will be greatly appreciated.

# 1042. Re: CRT image size question

Yahoo group: hp8924
Date: 2012-07-31 21:47:22 UTC
From: c_day_nz
Topic: 1040  Message: 1042

Hi Don. Sounds like power supply related issues to me. Sounds like the +15V STBY rail is dropping in and out - possibly a dry cap. There is some very good information on the 8924 power supply in the group files section. Replace the common faulty caps and I think you'll find your problems go away. Cheers, Chris.

--- In hp8924@yahoogroups.com, "Don" <donald_s_58103@...> wrote:
>
>
> On playing with it further, I have found that it has more problems :(
> When I turn it on, there is nothing on the screen for perhaps 7-9 out of 10
> times that I power it up. On the remaining tries, the screen comes on and the
> brightness varies from very dim, barely visible, to fairly bright and clear
> (with the brightness level set on max in configuration). Again, I am unable to
> turn the unit off using the power button on the front panel. It shuts down but
> restarts again almost immediately (after about a second). Does this sound like a
> power supply problem? Once it powers on properly, it seems to work OK. I ran
> through the verification tests and everything looks OK. Any help will be greatly
> appreciated.
>

# 1043. Re: CRT image size question

Yahoo group: hp8924
Date: 2012-08-01 11:56:25 UTC
From: Don
Topic: 1040  Message: 1043

I should clarify that on those tries when nothing comes up on the CRT, the 8924C does power up (or at least used to...it doesn't now) and appears to go through the boot-up routine (the fan comes on, I hear the beep and some crackling in the speaker).

--- In hp8924@yahoogroups.com, "c_day_nz" <c.day@...> wrote:
>
> Hi Don. Sounds like power supply related issues to me. Sounds like the +15V STBY rail is dropping in and out - possibly a dry cap. There is some very good information on the 8924 power supply in the group files section. Replace the common faulty caps and I think you'll find your problems go away. Cheers, Chris.
>
> --- In hp8924@yahoogroups.com, "Don" <donald_s_58103@> wrote:
> >
> >
> > On playing with it further, I have found that it has more problems :(
> > When I turn it on, there is nothing on the screen for perhaps 7-9 out of 10
> > times that I power it up. On the remaining tries, the screen comes on and the
> > brightness varies from very dim, barely visible, to fairly bright and clear
> > (with the brightness level set on max in configuration). Again, I am unable to
> > turn the unit off using the power button on the front panel. It shuts down but
> > restarts again almost immediately (after about a second). Does this sound like a
> > power supply problem? Once it powers on properly, it seems to work OK. I ran
> > through the verification tests and everything looks OK. Any help will be greatly
> > appreciated.
> >
>

# 1044. Re: CRT image size question

Yahoo group: hp8924
Date: 2012-08-02 11:01:20 UTC
From: c_day_nz
Topic: 1040  Message: 1044

Hi Don. Have you looked at troubleshooting in section 3 of the 8924C Assembly Level Repair Guide? Cheers, Chris..

--- In hp8924@yahoogroups.com, "Don" <donald_s_58103@...> wrote:
>
>
> I should clarify that on those tries when nothing comes up on the CRT, the 8924C does power up (or at least used to...it doesn't now) and appears to go through the boot-up routine (the fan comes on, I hear the beep and some crackling in the speaker).
>
>

# 1045. Re: CRT image size question

Yahoo group: hp8924
Date: 2012-08-03 15:57:22 UTC
From: Don
Topic: 1040  Message: 1045

It appears that it IS a power supply problem. The unit now does not turn on at all. Looks like the PSU has given up it's ghost. I have a replacement unit on its way. Hopefully it will not have any issues.

Don

--- In hp8924@yahoogroups.com, "Don" <donald_s_58103@...> wrote:
>
> Hi all,
>
> Just received my 8924C. Thankfully, it survived UPS handling! A very quick cursory check indicates that the unit powers up and at least the spectrum analyzer part appears to be functioning properly. However, I have noted two immediate issues that I am hoping will have easy fixes:
>
> 1. The CRT image is horizontally compressed (image does not extend to the edges but is horizontally squished although centered.
>
> 2. When I press the power on-off button to turn the unit off, it powers down, but then immediately powers back up again. So, the only way I can turn power off is to pull the plug on the unit.
>
> Any ideas on how I can rectify these problems?
>

# 1046. HP 8920B odd smell on power up.

Yahoo group: hp8924
Date: 2012-08-03 23:54:53 UTC
From: rfiemiguy
Topic: 1046  Message: 1046

My 8920B has emitted a chemical smell upon start up which quickly dissipates. I have no other problems. I suspect this is a capacitor in the switcher that gets surged when initially turned on. I usually leave the instrument unplugged as well, but seems to be upon switch on. Can anyone advise which capacitors to replace?

# 1047. Re: HP 8920B odd smell on power up.

Yahoo group: hp8924
Date: 2012-08-04 03:58:10 UTC
From: wb6dgn_tom@att.net
Topic: 1046  Message: 1047

Mine does that as well. To me it smells like an overheated component, probably a resistor. It doesn't do it all the time, very unpredictable and random, and the odor seems to go away fairly quickly if it's left on. It happened frequently when I first got the unit but, as time goes on, it seems to happen less often. Still, it's a bit disconcerting.
Tom

--- In hp8924@yahoogroups.com, "rfiemiguy" <rhyolite@...> wrote:
>
> My 8920B has emitted a chemical smell upon start up which quickly dissipates. I have no other problems. I suspect this is a capacitor in the switcher that gets surged when initially turned on. I usually leave the instrument unplugged as well, but seems to be upon switch on. Can anyone advise which capacitors to replace?
>

# 1048. Re: HP 8920B odd smell on power up.

Yahoo group: hp8924
Date: 2012-08-04 12:44:52 UTC
From: Jerry
Topic: 1046  Message: 1048

Mine as well. I don't think it is a passive component pending failure but smells more like a heated plastic releasing some degradation volatiles. I guess time will tell J

Jerry
K1JOS

# 1049. Re: [hp8924] Re: HP 8920B odd smell on power up.

Yahoo group: hp8924
Date: 2012-08-04 15:24:11 UTC
From: Tim
Topic: 1046  Message: 1049

Tom/all,

Mine does the same thing... I keep waiting for a wisp of smoke to come out of the box & then everything goes dark!

It does smell like a resistor cooking.

Tim

Mine does that as well. To me it smells like an overheated component, probably a resistor. It doesn't do it all the time, very unpredictable and random, and the odor seems to go away fairly quickly if it's left on. It happened frequently when I first got the unit but, as time goes on, it seems to happen less often. Still, it's a bit disconcerting.
Tom

--- In hp8924@yahoogroups.com, "rfiemiguy" wrote:
>
> My 8920B has emitted a chemical smell upon start up which quickly dissipates. I have no other problems. I suspect this is a capacitor in the switcher that gets surged when initially turned on. I usually leave the instrument unplugged as well, but seems to be upon switch on. Can anyone advise which capacitors to replace?
>

# 1050. Re: [hp8924] Re: HP 8920B odd smell on power up.

Yahoo group: hp8924
Date: 2012-08-04 15:38:36 UTC
From: David Cameron
Topic: 1046  Message: 1050

I tore my HP8920A apart trying to find the source, and could not.

When I asked about it a few years back, others mentioned it may be the AC Mains filter. But I noticed the smell is still there, even if I use the DC input, so I don't think my issue was the filter. Has anyone else tried the DC input to isolate part of the circuit?

Dave Cameron
VE7LTD
---
David Cameron - VE7LTD
IRLP System Designer - http://www.irlp.net

-----Original Message-----
From: Tim <tim@utopiaedesign.com>
Sender: hp8924@yahoogroups.com
Date: Sat, 04 Aug 2012 10:24:11
To: <hp8924@yahoogroups.com>
Reply-To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Re: HP 8920B odd smell on power up.

Tom/all,

Mine does the same thing... I keep waiting for a wisp of smoke to come out of the box & then everything goes dark!

It does smell like a resistor cooking.

Tim

Mine does that as well. To me it smells like an overheated component, probably a resistor. It doesn't do it all the time, very unpredictable and random, and the odor seems to go away fairly quickly if it's left on. It happened frequently when I first got the unit but, as time goes on, it seems to happen less often. Still, it's a bit disconcerting.
Tom

--- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com> , "rfiemiguy" <rhyolite@...> <mailto:rhyolite@...> wrote:
>
> My 8920B has emitted a chemical smell upon start up which quickly dissipates. I have no other problems. I suspect this is a capacitor in the switcher that gets surged when initially turned on. I usually leave the instrument unplugged as well, but seems to be upon switch on. Can anyone advise which capacitors to replace?
>

# 1051. Re: [hp8924] Re: HP 8920B odd smell on power up.

Yahoo group: hp8924
Date: 2012-08-04 18:15:47 UTC
From: Robert Atkinson
Topic: 1046  Message: 1051

It may be that the smell is noticed at turn on is not electronic. The smell may be because the fan is blowing out a smell that has accumulated while the unit is off.
The epoxy cased self healing EMI capacitors are infamous for givving off bad smells. Of course they do not stop the unit from operating if they fail (unless they go completely short circuit, but you will notice that. This is a common problen on Solartron 7150 DMMs and Farnell G series power supplies.

Robert G8RPI

---
From: David Cameron <dcameron@...>
To: hp8924@yahoogroups.com
Sent: Saturday, 4 August 2012, 16:38
Subject: Re: [hp8924] Re: HP 8920B odd smell on power up.

I tore my HP8920A apart trying to find the source, and could not.

When I asked about it a few years back, others mentioned it may be the AC Mains filter. But I noticed the smell is still there, even if I use the DC input, so I don't think my issue was the filter. Has anyone else tried the DC input to isolate part of the circuit?

Dave Cameron
VE7LTD
---
David Cameron - VE7LTD
IRLP System Designer - http://www.irlp.net
---

From: Tim <tim@...>
Sender: hp8924@yahoogroups.com
Date: Sat, 04 Aug 2012 10:24:11 -0500
To: <hp8924@yahoogroups.com>
ReplyTo: hp8924@yahoogroups.com
Subject: Re: [hp8924] Re: HP 8920B odd smell on power up.

Tom/all,

Mine does the same thing... I keep waiting for a wisp of smoke to
come out of the box & then everything goes dark!

It does smell like a resistor cooking.

Tim

>
>
>Mine does that as well. To me it smells like an overheated
component, probably a resistor. It doesn't do it all the

time, very unpredictable and random, and the odor seems to
go away fairly quickly if it's left on. It happened
frequently when I first got the unit but, as time goes on,
it seems to happen less often. Still, it's a bit
disconcerting.
>Tom
>
>--- In hp8924@yahoogroups.com, "rfiemiguy" <rhyolite@...> wrote:
>>
>> My 8920B has emitted a chemical smell upon start up
which quickly dissipates. I have no other problems. I
suspect this is a capacitor in the switcher that gets
surged when initially turned on. I usually leave the
instrument unplugged as well, but seems to be upon switch
on. Can anyone advise which capacitors to replace?
>>
>
>

# 1052. Re: [hp8924] Re: HP 8920B odd smell on power up.

Yahoo group: hp8924
Date: 2012-08-05 21:07:26 UTC
From: keith
Topic: 1046  Message: 1052

I have an 8924 and a 8920 and I think I have notice something similar. Sort of wax smell. I haven't studied the circuit but if they had a YIG filter then they get quite hot in use. As the units only go up to 1Ghz I suspect they won't have one though. It could be foam packing and the fan evacuating the built up smells in the case until its all gone and until its left idle again for a while.

From: Robert Atkinson
Sent: Sunday, August 05, 2012 6:15 AM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Re: HP 8920B odd smell on power up.

It may be that the smell is noticed at turn on is not electronic. The smell may be because the fan is blowing out a smell that has accumulated while the unit is off.
The epoxy cased self healing EMI capacitors are infamous for givving off bad smells. Of course they do not stop the unit from operating if they fail (unless they go completely short circuit, but you will notice that. This is a common problen on Solartron 7150 DMMs and Farnell G series power supplies.

Robert G8RPI

---
From: David Cameron <dcameron@...>
To: hp8924@yahoogroups.com
Sent: Saturday, 4 August 2012, 16:38
Subject: Re: [hp8924] Re: HP 8920B odd smell on power up.

I tore my HP8920A apart trying to find the source, and could not.

When I asked about it a few years back, others mentioned it may be the AC Mains filter. But I noticed the smell is still there, even if I use the DC input, so I don't think my issue was the filter. Has anyone else tried the DC input to isolate part of the circuit?

Dave Cameron
VE7LTD
---
David Cameron - VE7LTD
IRLP System Designer - http://www.irlp.net

---

From: Tim <tim@utopiaedesign.com>
Sender: hp8924@yahoogroups.com
Date: Sat, 04 Aug 2012 10:24:11 -0500
To: <hp8924@yahoogroups.com>
ReplyTo: hp8924@yahoogroups.com
Subject: Re: [hp8924] Re: HP 8920B odd smell on power up.

Tom/all,

Mine does the same thing... I keep waiting for a wisp of smoke to come out of the box & then everything goes dark!

It does smell like a resistor cooking.

Tim

Mine does that as well. To me it smells like an overheated component, probably a resistor. It doesn't do it all the time, very unpredictable and random, and the odor seems to go away fairly quickly if it's left on. It happened frequently when I first got the unit but, as time goes on, it seems to happen less often. Still, it's a bit disconcerting.
Tom

--- In mailto:hp8924%40yahoogroups.com, "rfiemiguy" mailto:rhyolite@... wrote:
>
> My 8920B has emitted a chemical smell upon start up which quickly dissipates. I have no other problems. I suspect this is a capacitor in the switcher that gets surged when initially turned on. I usually leave the instrument unplugged as well, but seems to be upon switch on. Can anyone advise which capacitors to replace?
>

# 1053. Disabling or disconnecting CRT?

Yahoo group: hp8924
Date: 2012-08-06 11:58:36 UTC
From: Don
Topic: 1053  Message: 1053

This is for those of you that are using external monitors with your 8924Cs...

Is there a way to turn-off the CRT when using an external monitor (to prevent screen burn-in)? I am still finding my way around with my newly acquired 8924C and I am considering the external monitor option. I know on some HP equipment (like my 8568B Spectrum Analyzer) the CRT can be turned off by a combination of keystrokes from the front panel. Is there a similar keystroke-combination for the 8924C? I guess one option on the 8924C would be to set the screen intensity at it's lowest setting in configuration menu.

Would internally disconnecting the cable to the CRT lead to any deleterious effects on the high-voltage part of the power supply?

# 1054. Need HP8920 Power Supply

Yahoo group: hp8924
Date: 2012-08-15 01:30:29 UTC
From: Camilo So
Topic: 1054  Message: 1054

Hi,

Any one on this group know where I can get a NEW or good working HP8920 Power supply. The one I have got a burn PCB board, and become conductive carbon on both side of the PCB.

Regards,

Camilo

# 1055. Re: [hp8924] Need HP8920 Power Supply

Yahoo group: hp8924
Date: 2012-08-15 02:35:00 UTC
From: Ralph Mowery
Topic: 1054  Message: 1055

I would try here first.
http://www.amtronix.com/

--- On Tue, 8/14/12, Camilo So <socamilo@...> wrote:

From: Camilo So <socamilo@bellsouth.net>
Subject: [hp8924] Need HP8920 Power Supply
To: hp8924@yahoogroups.com
Date: Tuesday, August 14, 2012, 9:30 PM

Hi,
Any one on this group know where I can get a NEW or good working HP8920 Power supply. The one I have got a burn PCB board, and become conductive carbon  on both side of the PCB.

Regards,
Camilo

# 1056. Re: Replacement Feet

Yahoo group: hp8924
Date: 2012-08-17 00:30:44 UTC
From: c_day_nz
Topic: 478  Message: 1056

I'll give the custom replacement feet a pass thanks. Have uploaded some photos and data on aluminum channel I'm using instead. Cheers, Chris.

--- In hp8924@yahoogroups.com, "c_day_nz" <c.day@...> wrote:
>
> Hi Phil,
> Same here - smashed up rear feet. I would be interested assuming the price is right.
> Cheers,
> Chris ZL1CVD
>
>
> >
> > Speaking of machining and the 8624, my unit has a badly
> > cracked rear panel foot. I was considering making some new
> > feet for mine machined from solid Delrin, I wonder if anyone
> > else could use replacement feet for their units?
> >
> > 73
> >
> > Phil Lefever, KB0NES
> >
>

# 1057. Re: Modifying internal 3W attenuator (Assembly A4)

Yahoo group: hp8924
Date: 2012-08-29 20:29:42 UTC
From: JimBob
Topic: 478  Message: 1057

Chris, I just got through with putting that attenuator in an 8924, The heat sink has screw holes that do not align perfectly with the new attenuator. I cheated and put the new one on top of the old one after altering the holes. I just ground down the solder tabs on the old one and used it as the holder for the new one. A little playing around and I managed to bet both screws aligned. Dremel tool came in handy. I just gave the configure a -16 dB offset and it tracks pretty will with my bird 43. Good luck. I am interested in the TFT monitor conversion. Sounds awesome!!

Jim W4JDB
--- In hp8924@yahoogroups.com, "c_day_nz" <c_day@...> wrote:
>
> I have a standard 8924C which handles 3W max. I want to replace the flange attenuator inside unit A4 with a 20dB 100W H100NA20X4 Anaren attenuator. Can anyone confirm if the original HP attenuator is indeed 4dB? With the new attenuator fitted, do I just update the appropriate configuration screen with a 16dB offset? Also, given the new attenuator will handle 100W, will I be OK to measure 100W or would this exceed the test set input? Note my main use for the analyzer is testing / repairing / aligning HF SSB 100W & the odd 2m/70cm 20~50W FM gear. So super accuracy is not a key requirement.
>
> AND a huge thanks to group members - I was able to repair my 8924C PSU and am part way through replacing the CRT with a TFT display. Only possible with help from this group.
>
> Cheers & 73s
> Chris ZL1CVD.
>

# 1058. Re: [hp8924] Re: Modifying internal 3W attenuator (Assembly A4)

Yahoo group: hp8924
Date: 2012-08-30 11:33:53 UTC
From: Robert Atkinson
Topic: 478  Message: 1058

Hi Jim,
I know it's too late, but for others, DON'T GRIND THE ATTENUATOR!!! Many of these stripline attenuators and terminators have beryllium oxide (BeO) insulators. BeO dust is highly toxic if inhaled or it gets into a cut. I don't know about the original 3W device but the higher power units definatly contain BeO. Oddly BeO caution markings seen a lot less common on American equipment compared to British.

Robert G8RPI.

---
From: JimBob <jim@...>
To: hp8924@yahoogroups.com
Sent: Wednesday, 29 August 2012, 21:29
Subject: [hp8924] Re: Modifying internal 3W attenuator (Assembly A4)

Chris, I just got through with putting that attenuator in an 8924, The heat sink has screw holes that do not align perfectly with the new attenuator. I cheated and put the new one on top of the old one after altering the holes. I just ground down the solder tabs on the old one and used it as the holder for the new one. A little playing around and I managed to bet both screws aligned. Dremel tool came in handy. I just gave the configure a -16 dB offset and it tracks pretty will with my bird 43. Good luck. I am interested in the TFT monitor conversion. Sounds awesome!!

Jim W4JDB
--- In mailto:hp8924%40yahoogroups.com, "c_day_nz" <c_day@...> wrote:
>
> I have a standard 8924C which handles 3W max. I want to replace the flange attenuator inside unit A4 with a 20dB 100W H100NA20X4 Anaren attenuator. Can anyone confirm if the original HP attenuator is indeed 4dB? With the new attenuator fitted, do I just update the appropriate configuration screen with a 16dB offset? Also, given the new attenuator will handle 100W, will I be OK to measure 100W or would this exceed the test set input? Note my main use for the analyzer is testing / repairing / aligning HF SSB 100W & the odd 2m/70cm 20~50W FM gear. So super accuracy is not a key requirement.
>
> AND a huge thanks to group members - I was able to repair my 8924C PSU and am part way through replacing the CRT with a TFT display. Only possible with help from this group.
>
> Cheers & 73s
> Chris ZL1CVD.
>

# 1059. RE: [hp8924] Re: Modifying internal 3W attenuator (Assembly A4)

Yahoo group: hp8924
Date: 2012-08-30 13:58:45 UTC
From: Jim Broome
Topic: 478 Message: 1059

Thanks. I think you are correct on the beryllium. I noticed the copper color and the hardness of the tabs as I was grinding. Now, you wanna know something . . . every bomb dropped in Vietnam had a beryllium clip on the arming wire. Some useless information J

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Robert Atkinson
Sent: Thursday, August 30, 2012 7:34 AM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Re: Modifying internal 3W attenuator (Assembly A4)

Hi Jim,

I know it's too late, but for others, DON'T GRIND THE ATTENUATOR!!! Many of these stripline attenuators and terminators have beryllium oxide (BeO) insulators. BeO dust is highly toxic if inhaled or it gets into a cut. I don't know about the original 3W device but the higher power units definatly contain BeO. Oddly BeO caution markings seen a lot less common on American equipment compared to British.

Robert G8RPI.

From: JimBob <jim@battery-rebuilders.com>
To: hp8924@yahoogroups.com
Sent: Wednesday, 29 August 2012, 21:29
Subject: [hp8924] Re: Modifying internal 3W attenuator (Assembly A4)

Chris, I just got through with putting that attenuator in an 8924, The heat sink has screw holes that do not align perfectly with the new attenuator. I cheated and put the new one on top of the old one after altering the holes. I just ground down the solder tabs on the old one and used it as the holder for the new one. A little playing around and I managed to bet both screws aligned. Dremel tool came in handy. I just gave the configure a -16 dB offset and it tracks pretty will with my bird 43. Good luck. I am interested in the TFT monitor conversion. Sounds awesome!!

Jim W4JDB
--- In mailto:hp8924%40yahoogroups.com, "c_day_nz" <c_day@...> wrote:
>
> I have a standard 8924C which handles 3W max. I want to replace the flange attenuator inside unit A4 with a 20dB 100W H100NA20X4 Anaren attenuator. Can anyone confirm if the original HP attenuator is indeed 4dB? With the new attenuator fitted, do I just update the appropriate configuration screen with a 16dB offset? Also, given the new attenuator will handle 100W, will I be OK to measure 100W or would this exceed the test set input? Note my main use for the analyzer is testing / repairing / aligning HF SSB 100W & the odd 2m/70cm 20~50W FM gear. So super accuracy is not a key requirement.
>
> AND a huge thanks to group members - I was able to repair my 8924C PSU and am part way through replacing the CRT with a TFT display. Only possible with help from this group.
>
> Cheers & 73s

> Chris ZL1CVD.
>

# 1060. Re: [hp8924] Re: Modifying internal 3W attenuator (Assembly A4)

Yahoo group: hp8924
Date: 2012-08-30 15:31:51 UTC
From: Tony Brignole
Topic: 478  Message: 1060

Can't believe the Govt. didn't require a notice on the bombs alerting folks to the fact that the Berrylium could be a health hazard.

The Govt. is considering warnings on lead rounds alerting folks to the potential for "lead poisioning" but the argument is that the bullets go by so fast no body will be able to read it.

----- Original Message -----
From: Jim Broome
To: hp8924@yahoogroups.com
Sent: Thursday, August 30, 2012 8:58 AM
Subject: RE: [hp8924] Re: Modifying internal 3W attenuator (Assembly A4)

Thanks. I think you are correct on the beryllium. I noticed the copper color and the hardness of the tabs as I was grinding. Now, you wanna know something . . . every bomb dropped in Vietnam had a beryllium clip on the arming wire. Some useless information J

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Robert Atkinson
Sent: Thursday, August 30, 2012 7:34 AM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Re: Modifying internal 3W attenuator (Assembly A4)

Hi Jim,

I know it's too late, but for others, DON'T GRIND THE ATTENUATOR!!! Many of these stripline attenuators and terminators have beryllium oxide (BeO) insulators. BeO dust is highly toxic if inhaled or it gets into a cut. I don't know about the original 3W device but the higher power units definatly contain BeO. Oddly BeO caution markings seen a lot less common on American equipment compared to British.

Robert G8RPI.

From: JimBob <jim@...>
To: hp8924@yahoogroups.com
Sent: Wednesday, 29 August 2012, 21:29
Subject: [hp8924] Re: Modifying internal 3W attenuator (Assembly A4)

Chris, I just got through with putting that attenuator in an 8924, The heat sink has screw holes that do not align perfectly with the new attenuator. I cheated and put the new one on top of the old one after altering the holes. I just ground down the solder tabs on the old one and used it as the holder for the new one. A little playing around and I managed to bet both screws aligned. Dremel tool came in handy. I just gave the configure a -16 dB offset and it tracks pretty will with my bird 43. Good luck. I am interested in the TFT monitor conversion. Sounds awesome!!

Jim W4JDB
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> AND a huge thanks to group members - I was able to repair my 8924C PSU and am part way through replacing the CRT with a TFT display. Only possible with help from this group.
>
> Cheers & 73s
> Chris ZL1CVD.
>

# 1061. HP 8920A

Yahoo group: hp8924
Date: 2012-08-31 11:14:27 UTC
From: Silva
Topic: 1061  Message: 1061

Hi all,
I am new on this group and it is my 1st post.
My old HP 8920A cant read frequency and it spectrum analyzer do not read anything also.
It RF generator work fine when in RX mode.
In TX mode it just can read the power output from radio or another RF source.
Can somebody help me please?

Thanks in advance and Best Regards,

Silva.

PY8ELO

# 1062. Re: Modifying internal 3W attenuator (Assembly A4)

Yahoo group: hp8924
Date: 2012-08-31 20:58:14 UTC
From: c_day_nz
Topic: 478  Message: 1062

Many manufacturers of modern high power attenuators do not use beryllium oxide these days. They use Aluminum Nitride (AlN) which is more cost effective. The 100W 20dB Anaren attenuator I used was AIN so OK to grind. I doubt however the origonal 3W HP attenuator would be safe to grind. 73s Chris ZL1CVD.

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Hi Jim,
> I know it's too late, but for others, DON'T GRIND THE ATTENUATOR!!! Many of these stripline attenuators and terminators have beryllium oxide (BeO) insulators. BeO dust is highly toxic if inhaled or it gets into a cut. I don't know about the original 3W device but the higher power units definatly contain BeO. Oddly BeO caution markings seen a lot less common on American equipment compared to British.
> Â
> Robert G8RPI.

# 1063. Re: HP 8920A

Yahoo group: hp8924
Date: 2012-09-01 15:44:26 UTC
From: JimBob
Topic: 1061  Message: 1063

Check the "configure" screen and make sure everything is correctly selected. Then double check the user screens that you are having problems with. Just a quick thought. . .

--- In hp8924@yahoogroups.com, "Silva" <py8elo@...> wrote:
>
> Hi all,
> I am new on this group and it is my 1st post.
> My old HP 8920A cant read frequency and it spectrum analyzer do not read anything also.
> It RF generator work fine when in RX mode.
> In TX mode it just can read the power output from radio or another RF source.
> Can somebody help me please?
>
> Thanks in advance and Best Regards,
>
> Silva.
>
> PY8ELO
>

# 1064. PCMCIA Cards

Yahoo group: hp8924
Date: 2012-09-01 15:48:58 UTC
From: JimBob
Topic: 1064  Message: 1064

2 questions. . .

1. is the old style PCMCIA card the only way to get HP RF Tools loaded?? No way to use the flash card in a PCMCIA adapter ??

2. Is the HP RF Tools worth that expense?? Or save up for the Australian software and the cable to make it work??

Thanks,,
JIM W4JDB

# 1065. Re: [hp8924] PCMCIA Cards

Yahoo group: hp8924
Date: 2012-09-01 19:54:50 UTC
From: Robert Atkinson
Topic: 1064  Message: 1065

Hi Jim,
1. Yes you need a PCMCIA card with direct memory addressing, not the "FAT" formatted IDE interface you get with a CF card in an adaptor. In theory you could make an adaptor that worked as the CF spec has a direct addressing mode. I suspect that many of the modern CF cards will not support this mode properly though.
2. Yes the HP software is good.
If you want a copy, contact me off-list, I can do list members a better price than on ebay.

Regards,
Robert G8RPI.

---
From: JimBob <jim@...>
To: hp8924@yahoogroups.com
Sent: Saturday, 1 September 2012, 16:48
Subject: [hp8924] PCMCIA Cards

2 questions. . .

1. is the old style PCMCIA card the only way to get HP RF Tools loaded?? No way to use the flash card in a PCMCIA adapter ??

2. Is the HP RF Tools worth that expense?? Or save up for the Australian software and the cable to make it work??

Thanks,,
JIM W4JDB

# 1066. Re: [hp8924] PCMCIA Cards

Yahoo group: hp8924
Date: 2012-09-01 23:51:32 UTC
From: Ralph Mowery
Topic: 1064  Message: 1066

I do not think the flash card will work.  I tried it and have been told it will not work.

The RF Tools that HP puts out is totally differant than the one in Australia.
The HP version lets you set up the test set for some test easy.  One thing it does is give a distance to a fault in the coax cable that is hard to do without the RF Tools.

Other than that, I do not think it is really worth it for most people.

While you will have to buy the Australian version, I have seen some interface cables on ebay for a lot less than they are selling them for.

--- On Sat, 9/1/12, JimBob <jim@...> wrote:

From: JimBob <jim@battery-rebuilders.com>
Subject: [hp8924] PCMCIA Cards
To: hp8924@yahoogroups.com
Date: Saturday, September 1, 2012, 11:48 AM

2 questions. . .

1. is the old style PCMCIA card the only way to get HP RF Tools loaded??  No way to use the flash card in a PCMCIA adapter ??

2.  Is the HP RF Tools worth that expense??  Or save up for the Australian software and the cable to make it work??

Thanks,,
JIM W4JDB

---

Yahoo! Groups Links

# 1067. Re: HP 8920A

Yahoo group: hp8924
Date: 2012-09-03 17:57:27 UTC
From: rf.gra1
Topic: 1061  Message: 1067

Silva, o caminho para a medida de potencia é um e o de sinal é outro. Vc deveria fazer o autoteste. Isso te permitirá ter uma idéia do q está acontecendo. Eu acredito que tenham se danificado componentes da entrada de RF.

Eu consulto de vez em quando estas mensagens mas, fique a vontade para questionar q eu respondo (write in portuguese is better for me...rs,rs)

Abraço, Gabriel

--- In hp8924@yahoogroups.com, "JimBob" <jim@...> wrote:
>
> Check the "configure" screen and make sure everything is correctly selected. Then double check the user screens that you are having problems with. Just a quick thought. . .
>
> --- In hp8924@yahoogroups.com, "Silva" <py8elo@> wrote:
> >
> > Hi all,
> > I am new on this group and it is my 1st post.
> > My old HP 8920A cant read frequency and it spectrum analyzer do not read anything also.
> > It RF generator work fine when in RX mode.
> > In TX mode it just can read the power output from radio or another RF source.
> > Can somebody help me please?
> >
> > Thanks in advance and Best Regards,
> >
> > Silva.
> >
> > PY8ELO
> >
>

# 1068. Re: [hp8924] PCMCIA Cards

Yahoo group: hp8924
Date: 2012-09-03 20:24:04 UTC
From: Robert Atkinson
Topic: 1064  Message: 1068

PCMCIA  Cards. Having had a few more questions off list I thought I'd explain more of what I've found, I'm not an expert on this though.

This is a complex subject. PCMCIA (Personal Computer Memory Card International Association)is the original name, replaced by Pc Card. They can be 16 or 32 bit.
There are 3 basic types:
Type I 16bit 3.3mm thick
Type II 16 or 32 Bit 5.0 mm thick
Type III 16 or 32 Bit 10.5 mm thick
Note that these are primarily physical characteristics, not functional.
Originally designed for memory expansion they were available as RAM, Static RAM (SRAM, battery backed up) and ROM (including PROM and UV EPROM) functionality.
The PCMCIA cards were also used as external device interfaces.  The HP 8924C and 8920B support Type I RAM,
SRAM and ROM cards. The 8920A used a similar looking “EPSON” memory card with a single row of 40 contacts. These are hard to find and expensive.
Later cards, including Pc Cards, supported ATA (AT Attached) and IDE disk interfaces. Note that the early memory cards had direct addressing with random access, disks do not. Almost all FLASH storage cards used with PCs use the ATA/IDE disk interface, not direct addressing. PC operating systems recognise ATA cards as disk drives without specialist drivers or application software. Random access EEPROM and FLASH PCMCIA cards are available and are often described as linear flash. This is because of their linear addressing.  Even with a PCMCIA Type I Linear flash card
there are many variations apart from capacity.  There are four common types, Intel Series I & II and AMD Series C & D.  Then
there are attribute memory and other detail differences. Note that Linear Flash is much more expensive than ATA Flash. A new 2Mb Linear Flash card will cost between $50 and $150 depending on make and type.  The 8924C will read an Intel Type I as if it
were a ROM card. Note however that PC operating systems do not recognise Linear Flash. An application program and drivers are required to read and write to them.  The Intel type I cards require a 12V
programming voltage that is not supported by most PCs so a specialist reader/writer may be required. All in all this is a minefield and I’d tried many cards and readers before finding a combination that worked. It was not helped by HP not providing any information on their cards. I use Smart Technologies Intel Linear Flash series I cards.

Robert G8RPI.

---
From: Ralph Mowery <ku4pt@...>
To: hp8924@yahoogroups.com
Sent: Sunday, 2 September 2012, 0:51

Subject: Re: [hp8924] PCMCIA Cards

I do not think the flash card will work.  I tried it and have been told it will not work.

The RF Tools that HP puts out is totally differant than the one in Australia.
The HP version lets you set up the test set for some test easy.  One thing it does is give a distance to a fault in the coax cable that is hard to do without the RF Tools.

Other than that, I do not think it is really worth it for most people.

While you will have to buy the Australian version, I have seen some interface cables on ebay for a lot less than they are selling them for.

--- On Sat, 9/1/12, JimBob <jim@battery-rebuilders.com> wrote:

>From: JimBob <jim@...>
>Subject: [hp8924] PCMCIA Cards
>To: hp8924@yahoogroups.com
>Date: Saturday, September 1, 2012, 11:48 AM
>
>
>2 questions. . .
>
>1. is the old style PCMCIA card the only way to get HP RF Tools loaded??  No way to use the flash card in a PCMCIA adapter ??
>
>2.  Is the HP RF Tools worth that expense??  Or save up for the Australian software and the cable to make it work??
>
>Thanks,,
>JIM W4JDB
>
>
>
>------------------------------------
>
>Yahoo! Groups Links
>
>
>
>

# 1069. RE: [hp8924] PCMCIA Cards

Yahoo group: hp8924
Date: 2012-09-03 22:20:10 UTC
From: Jim Broome
Topic: 1064 Message: 1069

WOW! Thanks for all the time spent gathering this information!! It makes it easier and less expensive on all of us. Thanks very much.

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Robert Atkinson
Sent: Monday, September 03, 2012 4:24 PM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] PCMCIA Cards

PCMCIA Cards. Having had a few more questions off list I thought I'd explain more of what I've found, I'm not an expert on this though.

This is a complex subject. PCMCIA (Personal Computer Memory Card International Association)is the original name, replaced by Pc Card. They can be 16 or 32 bit.
There are 3 basic types:
Type I 16bit 3.3mm thick
Type II 16 or 32 Bit 5.0 mm thick
Type III 16 or 32 Bit 10.5 mm thick
Note that these are primarily physical characteristics, not functional. Originally designed for memory expansion they were available as RAM, Static RAM (SRAM, battery backed up) and ROM (including PROM and UV EPROM) functionality. The PCMCIA cards were also used as external device interfaces. The HP 8924C and 8920B support Type I RAM, SRAM and ROM cards. The 8920A used a similar looking “EPSON” memory card with a single row of 40 contacts. These are hard to find and expensive.
Later cards, including Pc Cards, supported ATA (AT Attached) and IDE disk interfaces. Note that the early memory cards had direct addressing with random access, disks do not. Almost all FLASH storage cards used with PCs use the ATA/IDE disk interface, not direct addressing. PC operating systems recognise ATA cards as disk drives without specialist drivers or application software. Random access EEPROM and FLASH PCMCIA cards are available and are often described as linear flash. This is because of their linear addressing. Even with a PCMCIA Type I Linear flash card there are many variations apart from capacity. There are four common types, Intel Series I & II and AMD Series C & D. Then there are attribute memory and other detail differences. Note that Linear Flash is much more expensive than ATA Flash. A new 2Mb Linear Flash card will cost between $50 and $150 depending on make and type. The 8924C will read an Intel Type I as if it were a ROM card. Note however that PC operating systems do not recognise Linear Flash. An application program and drivers are required to read and write to them. The Intel type I cards require a 12V programming voltage that is not supported by most PCs so a specialist reader/writer may be required. All in all this is a minefield and I’d tried many cards and readers before finding a combination that worked. It was not helped by HP not providing any information on their cards. I use Smart Technologies Intel Linear Flash series I cards.

Robert G8RPI.

---

From: Ralph Mowery <ku4pt@...>
To: hp8924@yahoogroups.com
Sent: Sunday, 2 September 2012, 0:51
Subject: Re: [hp8924] PCMCIA Cards

I do not think the flash card will work. I tried it and have been told it will not work.

The RF Tools that HP puts out is totally differant than the one in Australia.

The HP version lets you set up the test set for some test easy. One thing it does is give a distance to a fault in the coax cable that is hard to do without the RF Tools.

Other than that, I do not think it is really worth it for most people.

While you will have to buy the Australian version, I have seen some interface cables on ebay for a lot less than they are selling them for.

--- On Sat, 9/1/12, JimBob <jim@...> wrote:

From: JimBob <jim@battery-rebuilders.com>
Subject: [hp8924] PCMCIA Cards
To: hp8924@yahoogroups.com
Date: Saturday, September 1, 2012, 11:48 AM

2 questions. . .

1. is the old style PCMCIA card the only way to get HP RF Tools loaded?? No way to use the flash card in a PCMCIA adapter ??

2. Is the HP RF Tools worth that expense?? Or save up for the Australian software and the cable to make it work??

Thanks,,
JIM W4JDB

---

Yahoo! Groups Links

# 1070. Instrument setups

Yahoo group: hp8924
Date: 2012-09-10 02:11:05 UTC
From: JimBob
Topic: 1070  Message: 1070

If you press recall, there are a bunch of setups for cellular tests. Is there a way to remove these setups. I have read and read and must be dumb, cause I cant figure out how to remove the useless tests.

Jim W4JDB

# 1071. Re: [hp8924] Instrument setups

Yahoo group: hp8924
Date: 2012-09-10 03:28:22 UTC
From: Ralph Mowery
Topic: 1070  Message: 1071

Here is what the manual says.  Do not delete the one that says poweron as this is the one that determins how the 8924c starts up.  You can delete it and it will revert to the default. No real harm is done if you do delete the poweron test. You can set the 8924c up like you want it and recreate the poweron name. Here is a place that tells how to do that.
http://www.amtronix.com/poweron.htm

Steps 2 and 3 are only hints on how to set it up.  You can change them to whatever you want the 8924c to start up as. Then do step 4 to save it.

To Remove (Clear) an Individual SAVE Register
1. Specify where the register is stored using the Save/Recall field on the I/O CONFIGURE screen.
2. Press the RECALL key.
3. Use the knob to position the cursor in front of the register to be removed from the Recall
menu at the bottom right of the screen. The register name and percentage of
SAVE memory occupied by that register are indicated at the very top of the screen.
4. Press the ON/OFF key. A prompt appears, asking if you want to delete the save register.
5. Press the ON/OFF key to select YES. (Press the RATIO W key to select NO.)

--- On Sun, 9/9/12, JimBob <jim@battery-rebuilders.com> wrote:

From: JimBob <jim@...>
Subject: [hp8924] Instrument setups
To: hp8924@yahoogroups.com
Date: Sunday, September 9, 2012, 10:11 PM

If you press recall, there are a bunch of setups for cellular tests.  Is there a way to remove these setups.  I have read and read and must be dumb, cause I cant figure out how to remove the useless tests.

Jim  W4JDB

# 1072. RE: [hp8924] Instrument setups

Yahoo group: hp8924
Date: 2012-09-10 14:19:43 UTC
From: Jim Broome
Topic: 1070  Message: 1072

Thanks Ralph. I knew it was simple.

Jim W4JDB

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Ralph Mowery
Sent: Sunday, September 09, 2012 11:28 PM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Instrument setups

Here is what the manual says. Do not delete the one that says poweron as this is the one that determins how the 8924c starts up. You can delete it and it will revert to the default. No real harm is done if you do delete the poweron test. You can set the 8924c up like you want it and recreate the poweron name. Here is a place that tells how to do that.

http://www.amtronix.com/poweron.htm

Steps 2 and 3 are only hints on how to set it up. You can change them to whatever you want the 8924c to start up as. Then do step 4 to save it.

To Remove (Clear) an Individual SAVE Register

1. Specify where the register is stored using the Save/Recall field on the I/O CONFIGURE

screen.

2. Press the RECALL key.

3. Use the knob to position the cursor in front of the register to be removed from the Recall

menu at the bottom right of the screen. The register name and percentage of

SAVE memory occupied by that register are indicated at the very top of the screen.

4. Press the ON/OFF key. A prompt appears, asking if you want to delete the save register.

5. Press the ON/OFF key to select YES. (Press the RATIO W key to select NO.)

--- On Sun, 9/9/12, JimBob <jim@...> wrote:

From: JimBob <jim@...>
Subject: [hp8924] Instrument setups
To: hp8924@yahoogroups.com
Date: Sunday, September 9, 2012, 10:11 PM

If you press recall, there are a bunch of setups for cellular tests. Is there a way to remove these setups. I have read and read and must be dumb, cause I cant figure out how to remove the useless tests.

Jim W4JDB

# 1073. RE: [hp8924] Instrument setups

Yahoo group: hp8924
Date: 2012-09-10 14:33:42 UTC
From: Ralph Mowery
Topic: 1070  Message: 1073

Jim , most of the things on the 8924 are simple....

YOu just have to find them in one of several manuals that is about the size of the New York telephone directory :-)

Also the 8924 manual is almost useless for anything but cell phones and you have to go to the 8920 manual and then find which buttton does what between the two.

You probably want to delete the whole setup tests and then set the poweron test the way you want it.
That is what I did and then added in a few other test setups that I often use.

73

--- On Mon, 9/10/12, Jim Broome <jim@...> wrote:

From: Jim Broome <jim@...>
Subject: RE: [hp8924] Instrument setups
To: hp8924@yahoogroups.com
Date: Monday, September 10, 2012, 10:19 AM

Thanks Ralph.  I knew it was simple.
Jim W4JDB

# 1074. RE: [hp8924] Instrument setups

Yahoo group: hp8924
Date: 2012-09-10 14:37:45 UTC
From: Jim Broome
Topic: 1070  Message: 1074

That is happening right now!!!!

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Ralph Mowery
Sent: Monday, September 10, 2012 10:34 AM
To: hp8924@yahoogroups.com
Subject: RE: [hp8924] Instrument setups

Jim , most of the things on the 8924 are simple....

YOu just have to find them in one of several manuals that is about the size of the New York telephone directory :-)

Also the 8924 manual is almost useless for anything but cell phones and you have to go to the 8920 manual and then find which buttton does what between the two.

You probably want to delete the whole setup tests and then set the poweron test the way you want it.

That is what I did and then added in a few other test setups that I often use.

73

--- On Mon, 9/10/12, Jim Broome <jim@...> wrote:

From: Jim Broome <jim@...>
Subject: RE: [hp8924] Instrument setups
To: hp8924@yahoogroups.com
Date: Monday, September 10, 2012, 10:19 AM

Thanks Ralph. I knew it was simple.

Jim W4JDB

# 1075. Re: Instrument setups

Yahoo group: hp8924
Date: 2012-09-10 22:25:36 UTC
From: Don
Topic: 1070  Message: 1075

Hi Jim,

Did you fix the monitor issue? It looks like you may have done that based on your posts. Also, I think I had set up the Poweron config to start up in the Rx or Tx test mode.. did you have to re-do that?

Don

--- In hp8924@yahoogroups.com, "Jim Broome" <jim@...> wrote:
>
> That is happening right now!!!!
>
>
>
> From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of
> Ralph Mowery
> Sent: Monday, September 10, 2012 10:34 AM
> To: hp8924@yahoogroups.com
> Subject: RE: [hp8924] Instrument setups
>
>
>
>
>
>
>
>
>
> Jim , most of the things on the 8924 are simple....
>
>
>
> YOu just have to find them in one of several manuals that is about the size
> of the New York telephone directory :-)
>
>
>
> Also the 8924 manual is almost useless for anything but cell phones and you
> have to go to the 8920 manual and then find which buttton does what between
> the two.
>
>
>
>
>
> You probably want to delete the whole setup tests and then set the poweron

> test the way you want it.
>
> That is what I did and then added in a few other test setups that I often
> use.
>
>
>
> 73
>
>
>
> --- On Mon, 9/10/12, Jim Broome <jim@...> wrote:
>
>
> From: Jim Broome <jim@...>
> Subject: RE: [hp8924] Instrument setups
> To: hp8924@yahoogroups.com
> Date: Monday, September 10, 2012, 10:19 AM
>
>
>
> Thanks Ralph. I knew it was simple.
>
> Jim W4JDB
>

# 1076. RE: [hp8924] Re: Instrument setups

Yahoo group: hp8924
Date: 2012-09-10 22:46:15 UTC
From: Jim Broome
Topic: 1070  Message: 1076

That baby is working every day!! Got a bunch of things setup on the recall list. Tuned several repeaters for resale and some duplexers as well.

The on/off switch was bad, replaced some caps in the power supply and the monitor. All is well!!
How are you coming with yours??

Jim W4JDB

-----Original Message-----
From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Don
Sent: Monday, September 10, 2012 6:26 PM
To: hp8924@yahoogroups.com
Subject: [hp8924] Re: Instrument setups

Hi Jim,

Did you fix the monitor issue? It looks like you may have done that based on your posts. Also, I think I had set up the Poweron config to start up in the Rx or Tx test mode.. did you have to re-do that?

Don

--- In hp8924@yahoogroups.com, "Jim Broome" <jim@...> wrote:
>
> That is happening right now!!!!
>
>
>
> From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of
> Ralph Mowery
> Sent: Monday, September 10, 2012 10:34 AM
> To: hp8924@yahoogroups.com
> Subject: RE: [hp8924] Instrument setups
>
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>
>
> Jim , most of the things on the 8924 are simple....
>
>

>
> YOu just have to find them in one of several manuals that is about the
size
> of the New York telephone directory :-)
>
>
>
> Also the 8924 manual is almost useless for anything but cell phones and
you
> have to go to the 8920 manual and then find which buttton does what
between
> the two.
>
>
>
>
>
> You probably want to delete the whole setup tests and then set the poweron
> test the way you want it.
>
> That is what I did and then added in a few other test setups that I often
> use.
>
>
>
> 73
>
>
>
> --- On Mon, 9/10/12, Jim Broome <jim@...> wrote:
>
>
> From: Jim Broome <jim@...>
> Subject: RE: [hp8924] Instrument setups
> To: hp8924@yahoogroups.com
> Date: Monday, September 10, 2012, 10:19 AM
>
>
>
> Thanks Ralph. I knew it was simple.
>
> Jim W4JDB
>

---

Yahoo! Groups Links

# 1077. Re: Instrument setups

Yahoo group: hp8924
Date: 2012-09-10 23:43:11 UTC
From: Don
Topic: 1070  Message: 1077

So far so good on mine...

Glad you were able to fix the power supply and monitor issues. I have been using the external VGA monitor via the video adapter. Even though my monitor is fine, after using the VGA monitor I find it hard to go back to just the monitor on the 8924C. It is awesome to be able to see the 8924C's output on the large VGA monitor. No more squinting at the small monitor.

Don

--- In hp8924@yahoogroups.com, "Jim Broome" <jim@...> wrote:
>
> That baby is working every day!! Got a bunch of things setup on the recall
> list. Tuned several repeaters for resale and some duplexers as well.
>
> The on/off switch was bad, replaced some caps in the power supply and the
> monitor. All is well!!
> How are you coming with yours??
>
> Jim W4JDB

# 1078. EXTERNAL VIDIO FOR 8924c

Yahoo group: hp8924
Date: 2012-09-11 01:40:02 UTC
From: aa1pi
Topic: 1078  Message: 1078

Vidio for the 8924c
LM1881 circuit is built , not sure how to connect it to the GBS 8200.
I have pin 1 composite sync output connected to the green RCA plug on the
GBS 8200 v 4.0
pin 5 to power supply pos
pin 6 + 4 to ground POWER NEG
pin 2 composite vidio input from 8924c
pins 3,7,5 are not connected to anything.
With 8924c on and the LM1881 and GBS 8200 powered by a 5v power supply.
When I depress the auto button for over 5 seconds , when released I have
a green screen. No lines or words just a green color.
I am at a standstill here, are pins 3,5,7 to be connected someplace ?
Could someone point me in the right direction.
Thanks Bob AA1PI

# 1079. Re: EXTERNAL VIDIO FOR 8924c

Yahoo group: hp8924
Date: 2012-09-11 01:43:23 UTC
From: Don
Topic: 1078  Message: 1079

Have you looked at the "sync separator" pdf file in the files section?

Don

--- In hp8924@yahoogroups.com, "aa1pi" <bobcarter@...> wrote:
>
> Vidio for the 8924c
> LM1881 circuit is built , not sure how to connect it to the GBS 8200.
> I have pin 1 composite sync output connected to the green RCA plug on the
> GBS 8200 v 4.0
> pin 5 to power supply pos
> pin 6 + 4 to ground POWER NEG
> pin 2 composite vidio input from 8924c
> pins 3,7,5 are not connected to anything.
> With 8924c on and the LM1881 and GBS 8200 powered by a 5v power supply.
> When I depress the auto button for over 5 seconds , when released I have
> a green screen. No lines or words just a green color.
> I am at a standstill here, are pins 3,5,7 to be connected someplace ?
> Could someone point me in the right direction.
> Thanks Bob AA1PI
>

# 1080. Re: EXTERNAL VIDIO FOR 8924c

Yahoo group: hp8924
Date: 2012-09-11 01:46:02 UTC
From: Don
Topic: 1078  Message: 1080

Also, if you haven't already done so, look at the "GBS 8200 mods" photos in the photo section.

--- In hp8924@yahoogroups.com, "aa1pi" <bobcarter@...> wrote:
>
> Vidio for the 8924c
> LM1881 circuit is built , not sure how to connect it to the GBS 8200.
> I have pin 1 composite sync output connected to the green RCA plug on the
> GBS 8200 v 4.0
> pin 5 to power supply pos
> pin 6 + 4 to ground POWER NEG
> pin 2 composite vidio input from 8924c
> pins 3,7,5 are not connected to anything.
> With 8924c on and the LM1881 and GBS 8200 powered by a 5v power supply.
> When I depress the auto button for over 5 seconds , when released I have
> a green screen. No lines or words just a green color.
> I am at a standstill here, are pins 3,5,7 to be connected someplace ?
> Could someone point me in the right direction.
> Thanks Bob AA1PI
>

# 1081. Re: EXTERNAL VIDIO FOR 8924c

Yahoo group: hp8924
Date: 2012-09-11 13:11:28 UTC
From: aa1pi
Topic: 1078  Message: 1081

--- In hp8924@yahoogroups.com, "Don" <donald_s_58103@...> wrote:
>
> Also, if you haven't already done so, look at the "GBS 8200 mods" photos in the photo section.
>
>
>
Hi Don Thanks for the post the SYNC separator PDF is for the LM 393
and the 8200 mods is only a picture no schematic.

regards Bob

# 1082. Re: [hp8924] Re: EXTERNAL VIDIO FOR 8924c

Yahoo group: hp8924
Date: 2012-09-11 15:19:12 UTC
From: Robert Atkinson
Topic: 1078  Message: 1082

Hi Bob,
The Lm1881 does not pass the video through. You need to feed the composite video from the 8924C to BOTH the green input of the 8200 and to pin 2 of the LM19881 (via a 0.1uF capacitor) The sync outputs of the LM1881 go to P11 (or P11) Pin 3 of the LM1881 to the V sync input and pin 1 to the H sync input.
HTH,
Robert G8RPI.

---
From: aa1pi <bobcarter@...>
To: hp8924@yahoogroups.com
Sent: Tuesday, 11 September 2012, 14:11
Subject: [hp8924] Re: EXTERNAL VIDIO FOR 8924c

--- In mailto:hp8924%40yahoogroups.com, "Don" <donald_s_58103@...> wrote:
>
> Also, if you haven't already done so, look at the "GBS 8200 mods" photos in the photo section.
>
>
>
Hi Don Thanks for the post the SYNC separator PDF is for the LM 393
and the 8200 mods is only a picture no schematic.

regards Bob

# 1083. Memory card explorer...help needed!

Yahoo group: hp8924
Date: 2012-09-11 23:26:58 UTC
From: donald_s_58103
Topic: 1083  Message: 1083

I just installed memory card explorer (from the files section of this Forum). It was very confusing to say the least since the directions are not clear. Anyway, I followed the meager installation instructions and I *think* the program has installed. I was not sure what to do with the two files (z02 and z01) but Winzip tells me that they are spanned zip files, so I am assuming that running the executable (memorycard.zip) will automatically consolidate the files and do the installation.

Now that I have installed it, I am not sure how to run the program. When I click on the program icon in Win XP, I see two choices for the memory card explorer program (one is simply labelled MCE and the other is labelled MCE (Auto Mem Win Setup). Which one of the two should I run? I did not want to just randomly run either one for fear of doing something irrevocable. I am looking for guidance from those who have successfully installed and run the program from the files obtained from the files section of this Forum. Thanks in advance for your input.

Don

# 1084. Re: [hp8924] Memory card explorer...help needed!

Yahoo group: hp8924
Date: 2012-09-12 00:01:37 UTC
From: Ralph Mowery
Topic: 1083  Message: 1084

Don it has been a while and I do not remember what I did.

If you just want the RF tools program, you can go to the files section here and look under RF Tools & NA FM.zip

When you unzip this, you can use the Windows Explorer program anda drag and drop the files to the memory card.
You can use a card a lot smaller than the one required for the other program on here.

--- On Tue, 9/11/12, donald_s_58103 <donald_s_58103@...> wrote:

From: donald_s_58103 <donald_s_58103@...>
Subject: [hp8924] Memory card explorer...help needed!
To: hp8924@yahoogroups.com
Date: Tuesday, September 11, 2012, 7:26 PM

I just installed memory card explorer (from the files section of this Forum). It was very confusing to say the least since the directions are not clear. Anyway, I followed the meager installation instructions and I *think* the program has installed. I was not sure what to do with the two files (z02 and z01) but Winzip tells me that they are spanned zip files, so I am assuming that running the executable (memorycard.zip) will automatically consolidate the files and do the installation.

Now that I have installed it, I am not sure how to run the program. When I click on the program icon in Win XP, I see two choices for the memory card explorer program (one is simply labelled MCE and the other is labelled MCE (Auto Mem Win Setup). Which one of the two should I run? I did not want to just randomly run either one for fear of doing something irrevocable. I am looking for guidance from those who have successfully installed and run the program from the files obtained from the files section of this Forum. Thanks in advance for your input.

Don

# 1085. Re: Memory card explorer...help needed!

Yahoo group: hp8924
Date: 2012-09-12 00:17:03 UTC
From: donald_s_58103
Topic: 1083  Message: 1085

Thank you, Ralph! I had already downloaded the file you pointed to. I don't have a memory card yet, but hopefully, I should have one by the end of this week. It is just that it is not clear to me how to transfer the RF Tools program to the memory card using my laptop. Is windows explorer and the RF tools program that you pointed to all that's needed? I don't have to use the memory card explorer and the Opt100.bin file at all?

--- In hp8924@yahoogroups.com, Ralph Mowery <ku4pt@...> wrote:
>
> Don it has been a while and I do not remember what I did.
>
> If you just want the RF tools program, you can go to the files section here and look under
> RF Tools & NA FM.zip
>
> When you unzip this, you can use the Windows Explorer program anda drag and drop the files to the memory card.
> You can use a card a lot smaller than the one required for the other program on here.
>
>
>
> --- On Tue, 9/11/12, donald_s_58103 <donald_s_58103@...> wrote:
>
>
> From: donald_s_58103 <donald_s_58103@...>
> Subject: [hp8924] Memory card explorer...help needed!
> To: hp8924@yahoogroups.com
> Date: Tuesday, September 11, 2012, 7:26 PM
>
>
> I just installed memory card explorer (from the files section of this Forum). It was very confusing to say the least since the directions are not clear. Anyway, I followed the meager installation instructions and I *think* the program has installed. I was not sure what to do with the two files (z02 and z01) but Winzip tells me that they are spanned zip files, so I am assuming that running the executable (memorycard.zip) will automatically consolidate the files and do the installation.
>
> Now that I have installed it, I am not sure how to run the program. When I click on the program icon in Win XP, I see two choices for the memory card explorer program (one is simply labelled MCE and the other is labelled MCE (Auto Mem Win Setup). Which one of the two should I run? I did not want to just randomly run either one for fear of doing something irrevocable. I am looking for guidance from those who have successfully installed and run the program from the files obtained from the files section of this Forum. Thanks in advance for your input.
>
> Don

>

# 1086. Re: [hp8924] Re: Memory card explorer...help needed!

Yahoo group: hp8924
Date: 2012-09-12 00:47:29 UTC
From: Ralph Mowery
Topic: 1083  Message: 1086

That is right.  You just download the rf tools files and I think they are zipped.  If so unzip them and just transfer them to the memory card like any file.  You may have to format the memory card, but that can be done in the 8924. I think I used a 256 K memory card with the seperate files.  They are mainly a text type file.  Written in Basic or really the HP instrument basic.  If you want to , you can use a program such as notepad or maybe word and edit them and resave the eddited program.

You do not have to use the Windows Explorer, but that is the program I use to transfer files between the hard drive and other devices such as the thumb drives.  Just easy for me to use.

The other way is to use a memory card that is atleast as big or bigger than the opt100.bin and the memory card explorer.  Instead of actually transferring a file, the bin is a binary image and it takes a special program such as the memory card explorer to transfer that over.  I am sure others can explain it beter, but that is the simple way as I see it.
The bin file is more of a memory dump from the 8924 to a card and then it was uploaded here.  Lots of unneeded bits in that file.

--- On Tue, 9/11/12, donald_s_58103 <donald_s_58103@...> wrote:

From: donald_s_58103 <donald_s_58103@...>
Subject: [hp8924] Re: Memory card explorer...help needed!
To: hp8924@yahoogroups.com
Date: Tuesday, September 11, 2012, 8:17 PM

Thank you, Ralph! I had already downloaded the file you pointed to. I don't have a memory card yet, but hopefully, I should have one by the end of this week. It is just that it is not clear to me how to transfer the RF Tools program to the memory card using my laptop. Is windows explorer and the RF tools program that you pointed to all that's needed? I don't have to use the memory card explorer and the Opt100.bin file at all?

# 1087. Re: Memory card explorer...help needed!

Yahoo group: hp8924
Date: 2012-09-12 01:53:25 UTC
From: Don
Topic: 1083  Message: 1087

Thanks again, Ralph. I have both the bin file and the separate files downloaded and also have the Memory Card Explorer program installed. So if one method doesn't work, I can always try the other!

BTW do you know what the difference is between the two Memory Card Explorer executables that were installed when I installed the program? one is called MCE (Auto mem Win setup) and the other MCE (low Mem Win at D0000).

--- In hp8924@yahoogroups.com, Ralph Mowery <ku4pt@...> wrote:
>
> That is right.  You just download the rf tools files and I think they are zipped.  If so unzip them and just transfer them to the memory card like any file.  You may have to format the memory card, but that can be done in the 8924. I think I used a 256 K memory card with the seperate files.  They are mainly a text type file.  Written in Basic or really the HP instrument basic.  If you want to , you can use a program such as notepad or maybe word and edit them and resave the eddited program.
>
> You do not have to use the Windows Explorer, but that is the program I use to transfer files between the hard drive and other devices such as the thumb drives.  Just easy for me to use.
>
> The other way is to use a memory card that is atleast as big or bigger than the opt100.bin and the memory card explorer.  Instead of actually transferring a file, the bin is a binary image and it takes a special program such as the memory card explorer to transfer that over.  I am sure others can explain it beter, but that is the simple way as I see it.
> The bin file is more of a memory dump from the 8924 to a card and then it was uploaded here.  Lots of unneeded bits in that file.

# 1088. Re: [hp8924] Memory card explorer...help needed!

Yahoo group: hp8924
Date: 2012-09-12 13:51:19 UTC
From: Robert Atkinson
Topic: 1083  Message: 1088

Hi Don,
What type of card are you grtting? The process depends on the card type as do the computer requirements.

Robert.

---
From: donald_s_58103 <donald_s_58103@...>
To: hp8924@yahoogroups.com
Sent: Wednesday, 12 September 2012, 0:26
Subject: [hp8924] Memory card explorer...help needed!

I just installed memory card explorer (from the files section of this Forum). It was very confusing to say the least since the directions are not clear. Anyway, I followed the meager installation instructions and I *think* the program has installed. I was not sure what to do with the two files (z02 and z01) but Winzip tells me that they are spanned zip files, so I am assuming that running the executable (memorycard.zip) will automatically consolidate the files and do the installation.

Now that I have installed it, I am not sure how to run the program. When I click on the program icon in Win XP, I see two choices for the memory card explorer program (one is simply labelled MCE and the other is labelled MCE (Auto Mem Win Setup). Which one of the two should I run? I did not want to just randomly run either one for fear of doing something irrevocable. I am looking for guidance from those who have successfully installed and run the program from the files obtained from the files section of this Forum. Thanks in advance for your input.

Don

# 1089. Re: [hp8924] Re: Memory card explorer...help needed!

Yahoo group: hp8924
Date: 2012-09-12 14:51:07 UTC
From: Ralph Mowery
Topic: 1083  Message: 1089

I do not know the differance Don.  I am using an old laptop with win 98se on it and have the two icons.  I use the Auto Mem setup.

--- On Tue, 9/11/12, Don <donald_s_58103@...> wrote:

From: Don <donald_s_58103@yahoo.com>
Subject: [hp8924] Re: Memory card explorer...help needed!
To: hp8924@yahoogroups.com
Date: Tuesday, September 11, 2012, 9:53 PM

Thanks again, Ralph. I have both the bin file and the separate files downloaded and also have the Memory Card Explorer program installed. So if one method doesn't work, I can always try the other!

BTW do you know what the difference is between the two Memory Card Explorer executables that were installed when I installed the program? one is called MCE (Auto mem Win setup) and the other MCE (low Mem Win at D0000).

# 1090. Re: Memory card explorer...help needed!

Yahoo group: hp8924
Date: 2012-09-12 19:15:04 UTC
From: Don
Topic: 1083  Message: 1090

Hi Robert,

I will be getting an original HP SRAM PCMCIA card. It has some other option installed (not OPT100). I am planning on ersing the card and putting the RF Tools program on it. I do have an older laptop running Win XP which has a PCMCIA card slot.

Don

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Hi Don,
> What type of card are you grtting? The process depends on the card type as do the computer requirements.
> Â
> Robert.
> Â
>
>
> _____
> From: donald_s_58103 <donald_s_58103@...>
> To: hp8924@yahoogroups.com
> Sent: Wednesday, 12 September 2012, 0:26
> Subject: [hp8924] Memory card explorer...help needed!
>
> Â
> I just installed memory card explorer (from the files section of this Forum). It was very confusing to say the least since the directions are not clear. Anyway, I followed the meager installation instructions and I *think* the program has installed. I was not sure what to do with the two files (z02 and z01) but Winzip tells me that they are spanned zip files, so I am assuming that running the executable (memorycard.zip) will automatically consolidate the files and do the installation.
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> Now that I have installed it, I am not sure how to run the program. When I click on the program icon in Win XP, I see two choices for the memory card explorer program (one is simply labelled MCE and the other is labelled MCE (Auto Mem Win Setup). Which one of the two should I run? I did not want to just randomly run either one for fear of doing something irrevocable. I am looking for guidance from those who have successfully installed and run the program from the files obtained from the files section of this Forum. Thanks in advance for your input.
>
> Don
>

# 1091. Re: [hp8924] Re: Memory card explorer...help needed!

Yahoo group: hp8924
Date: 2012-09-13 07:45:04 UTC
From: Robert Atkinson
Topic: 1083  Message: 1091

Hi Don,
Are you sure it's an SRAM card? I thought that the software option cards were ROM types. They did use SRAM cards but normally just for Setups and users own programs. The problem with SRAM is if the batttery discharges aor is not changed properly you loose the program. A ROM card of that era is most likely to be PROM (EPROM without the quartz window) which cannot be re-used.

Regards,
Robert.

_____
From: Don <donald_s_58103@...>
To: hp8924@yahoogroups.com
Sent: Wednesday, 12 September 2012, 20:15
Subject: [hp8924] Re: Memory card explorer...help needed!

Hi Robert,

I will be getting an original HP SRAM PCMCIA card. It has some other option installed (not OPT100). I am planning on ersing the card and putting the RF Tools program on it. I do have an older laptop running Win XP which has a PCMCIA card slot.

Don

--- In mailto:hp8924%40yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Hi Don,
> What type of card are you grtting? The process depends on the card type as do the computer requirements.
> Â
> Robert.
> Â
>
>
> _____
> From: donald_s_58103 <donald_s_58103@...>
> To: mailto:hp8924%40yahoogroups.com
> Sent: Wednesday, 12 September 2012, 0:26
> Subject: [hp8924] Memory card explorer...help needed!
>
> Â
> I just installed memory card explorer (from the files section of this Forum). It was very confusing to say the least since the directions are not clear. Anyway, I followed the meager installation instructions and I *think* the program has installed. I was not sure what to do with the two files (z02 and z01) but Winzip tells me that they are spanned zip files, so I am assuming that running the executable (memorycard.zip) will automatically

consolidate the files and do the installation.
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>
> Don
>

# 1092. Re: Memory card explorer...help needed!

Yahoo group: hp8924
Date: 2012-09-13 12:04:29 UTC
From: Don
Topic: 1083  Message: 1092

Hi Robert,

I sure hope it is an SRAM card! Although it is an HP original card, it holds beta software and has the part # hand-written on the label. Also, the card has the small switch at the bottom for write-protection, so I am assuming (hoping) that it is not a PROM card and that it is an SRAM card.

Don

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Hi Don,
> Are you sure it's an SRAM card? I thought that the software option cards were ROM types. They did use SRAM cards but normally just for Setups and users own programs. The problem with SRAM is if the batttery discharges aor is not changed properly you loose the program. A ROMÂ card of that era is most likely to be PROM (EPROM without the quartz window) which cannot be re-used.
> Â
> Regards,
> Robert.
>
>
> _____
> From: Don <donald_s_58103@...>
> To: hp8924@yahoogroups.com
> Sent: Wednesday, 12 September 2012, 20:15
> Subject: [hp8924] Re: Memory card explorer...help needed!
>
> Â
> Hi Robert,
>
> I will be getting an original HP SRAM PCMCIA card. It has some other option installed (not OPT100). I am planning on ersing the card and putting the RF Tools program on it. I do have an older laptop running Win XP which has a PCMCIA card slot.
>
> Don
>
> --- In mailto:hp8924%40yahoogroups.com, Robert Atkinson <robert8rpi@> wrote:
> >
> > Hi Don,
> > What type of card are you grtting? The process depends on the card type as do the computer requirements.
> > Ã□Â
> > Robert.
> > Ã□Â
> >
> >

> > _____
> > From: donald_s_58103 <donald_s_58103@>
> > To: mailto:hp8924%40yahoogroups.com
> > Sent: Wednesday, 12 September 2012, 0:26
> > Subject: [hp8924] Memory card explorer...help needed!
> >
> > Ã□Â
> > I just installed memory card explorer (from the files section of this Forum). It was very confusing to say the least since the directions are not clear. Anyway, I followed the meager installation instructions and I *think* the program has installed. I was not sure what to do with the two files (z02 and z01) but Winzip tells me that they are spanned zip files, so I am assuming that running the executable (memorycard.zip) will automatically consolidate the files and do the installation.
> >
> > Now that I have installed it, I am not sure how to run the program. When I click on the program icon in Win XP, I see two choices for the memory card explorer program (one is simply labelled MCE and the other is labelled MCE (Auto Mem Win Setup). Which one of the two should I run? I did not want to just randomly run either one for fear of doing something irrevocable. I am looking for guidance from those who have successfully installed and run the program from the files obtained from the files section of this Forum. Thanks in advance for your input.
> >
> > Don
> >
>

# 1093. Re: Memory card explorer...help needed!

Yahoo group: hp8924
Date: 2012-09-13 12:06:23 UTC
From: Don
Topic: 1083  Message: 1093

Forgot to mention this in my previous post... it also appears to have a battery. Given this information, do you think it is an SRAM card or a PROM card?

Don

--- In hp8924@yahoogroups.com, "Don" <donald_s_58103@...> wrote:
>
> Hi Robert,
>
> I sure hope it is an SRAM card! Although it is an HP original card, it holds beta software and has the part # hand-written on the label. Also, the card has the small switch at the bottom for write-protection, so I am assuming (hoping) that it is not a PROM card and that it is an SRAM card.
>
> Don
>
> --- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@> wrote:
> >
> > Hi Don,
> > Are you sure it's an SRAM card? I thought that the software option cards were ROM types. They did use SRAM cards but normally just for Setups and users own programs. The problem with SRAM is if the batttery discharges aor is not changed properly you loose the program. A ROMÂ card of that era is most likely to be PROM (EPROM without the quartz window) which cannot be re-used.
> > Â
> > Regards,
> > Robert.
> >
> >
> > _____
> > From: Don <donald_s_58103@>
> > To: hp8924@yahoogroups.com
> > Sent: Wednesday, 12 September 2012, 20:15
> > Subject: [hp8924] Re: Memory card explorer...help needed!
> >
> > Â
> > Hi Robert,
> >
> > I will be getting an original HP SRAM PCMCIA card. It has some other option installed (not OPT100). I am planning on ersing the card and putting the RF Tools program on it. I do have an older laptop running Win XP which has a PCMCIA card slot.
> >
> > Don
> >
> > --- In mailto:hp8924%40yahoogroups.com, Robert Atkinson <robert8rpi@> wrote:
> > >

> > > Hi Don,
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> > > Ã□Â
> > > Robert.
> > > Ã□Â
> > >
> > >
> > > _____
> > > From: donald_s_58103 <donald_s_58103@>
> > > To: mailto:hp8924%40yahoogroups.com
> > > Sent: Wednesday, 12 September 2012, 0:26
> > > Subject: [hp8924] Memory card explorer...help needed!
> > >
> > > Ã□Â
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> > > Now that I have installed it, I am not sure how to run the program. When I click on the program icon in Win XP, I see two choices for the memory card explorer program (one is simply labelled MCE and the other is labelled MCE (Auto Mem Win Setup). Which one of the two should I run? I did not want to just randomly run either one for fear of doing something irrevocable. I am looking for guidance from those who have successfully installed and run the program from the files obtained from the files section of this Forum. Thanks in advance for your input.
> > >
> > > Don
> > >
> >
>

# 1094. Re: [hp8924] Re: Memory card explorer...help needed!

Yahoo group: hp8924
Date: 2012-09-13 18:35:56 UTC
From: Robert Atkinson
Topic: 1083  Message: 1094

Hi Don,
Definately an SRAM card.  They are the easiest to use. Format it in the 8924C and you should be able to drag and drop in Windows rather than having to use MCE.

Robert G8RPI.

_____
From: Don <donald_s_58103@...>
To: hp8924@yahoogroups.com
Sent: Thursday, 13 September 2012, 13:06
Subject: [hp8924] Re: Memory card explorer...help needed!

Forgot to mention this in my previous post... it also appears to have a battery. Given this information, do you think it is an SRAM card or a PROM card?

Don

--- In mailto:hp8924%40yahoogroups.com, "Don" <donald_s_58103@...> wrote:
>
> Hi Robert,
>
> I sure hope it is an SRAM card! Although it is an HP original card, it holds beta software and has the part # hand-written on the label. Also, the card has the small switch at the bottom for write-protection, so I am assuming (hoping) that it is not a PROM card and that it is an SRAM card.
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> Don
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> --- In mailto:hp8924%40yahoogroups.com, Robert Atkinson <robert8rpi@> wrote:
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> > Regards,
> > Robert.
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> >
> > _____
> > From: Don <donald_s_58103@>
> > To: mailto:hp8924%40yahoogroups.com
> > Sent: Wednesday, 12 September 2012, 20:15
> > Subject: [hp8924] Re: Memory card explorer...help needed!

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> > Hi Robert,
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> > > Robert.
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> > > From: donald_s_58103 <donald_s_58103@>
> > > To: mailto:hp8924%40yahoogroups.com
> > > Sent: Wednesday, 12 September 2012, 0:26
> > > Subject: [hp8924] Memory card explorer...help needed!
> > >
> > > Ã‚Â
> > > I just installed memory card explorer (from the files section of this Forum). It was very confusing to say the least since the directions are not clear. Anyway, I followed the meager installation instructions and I *think* the program has installed. I was not sure what to do with the two files (z02 and z01) but Winzip tells me that they are spanned zip files, so I am assuming that running the executable (memorycard.zip) will automatically consolidate the files and do the installation.
> > >
> > > Now that I have installed it, I am not sure how to run the program. When I click on the program icon in Win XP, I see two choices for the memory card explorer program (one is simply labelled MCE and the other is labelled MCE (Auto Mem Win Setup). Which one of the two should I run? I did not want to just randomly run either one for fear of doing something irrevocable. I am looking for guidance from those who have successfully installed and run the program from the files obtained from the files section of this Forum. Thanks in advance for your input.
> > >
> > > Don
> > >
> >
>

# 1095. RE: [hp8924] Instrument setups

Yahoo group: hp8924
Date: 2012-09-14 15:04:38 UTC
From: Jim Broome
Topic: 1070  Message: 1095

Sorry to be a pain, but what PCMCIA card works. There are so dang many on Ebay, I don't want to get one that won't work.

One of the Amateur clubs that has some UHF repeaters in most of the communities locally is having problems with a cable situation at one of their sites. Seems that the owner put a firewall up in the attic of the building and must have damaged a cable. Want to use the cable fault finder app for a trial run. Gotta get a PCMCIA card for my baby.

Thanks. . . Jim W4JDB

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Ralph Mowery
Sent: Monday, September 10, 2012 10:34 AM
To: hp8924@yahoogroups.com
Subject: RE: [hp8924] Instrument setups

Jim , most of the things on the 8924 are simple....

YOu just have to find them in one of several manuals that is about the size of the New York telephone directory :-)

Also the 8924 manual is almost useless for anything but cell phones and you have to go to the 8920 manual and then find which buttton does what between the two.

You probably want to delete the whole setup tests and then set the poweron test the way you want it.

That is what I did and then added in a few other test setups that I often use.

73

--- On Mon, 9/10/12, Jim Broome <jim@...> wrote:

From: Jim Broome <jim@...>
Subject: RE: [hp8924] Instrument setups
To: hp8924@yahoogroups.com
Date: Monday, September 10, 2012, 10:19 AM

Thanks Ralph. I knew it was simple.

Jim W4JDB

# 1096. Re: [hp8924] Instrument setups

Yahoo group: hp8924
Date: 2012-09-14 16:53:16 UTC
From: Robert Atkinson
Topic: 1070  Message: 1096

Hi Jim,
The only type that is sure to work is an SRAM card. You need atleast 512k for the card image or 128k for just the return loss. Looking at buy it nows on ebay.com, I can do you a programmed PROM card for less. I charge 35 UK Pounds (about $55 US) inc postage (airmail to USA) to list members. This includes RF Tools and North American FM tests. My ebay price is higher, see item 261096497748. If you want a card payment is by PayPal to this email address.

Regards,
Robert G8RPI.

---
From: Jim Broome <jim@...>
To: hp8924@yahoogroups.com
Sent: Friday, 14 September 2012, 16:04
Subject: RE: [hp8924] Instrument setups

Sorry to be a pain, but what PCMCIA card works.  There are so dang many on Ebay,  I don't want to get one that won't work.
One of the Amateur clubs that has some UHF repeaters in most of the communities locally is having problems with a cable situation at one of their sites.  Seems that the owner put a firewall up in the attic of the building and must have damaged a cable.  Want to use the cable fault finder app for a trial run.  Gotta get a PCMCIA card for my baby.
Thanks. . .  Jim W4JDB

From:hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Ralph Mowery
Sent: Monday, September 10, 2012 10:34 AM
To: hp8924@yahoogroups.com
Subject: RE: [hp8924] Instrument setups

Jim , most of the things on the 8924 are simple....

YOu just have to find them in one of several manuals that is about the size of the New York telephone directory :-)

Also the 8924 manual is almost useless for anything but cell phones and you have to go to the 8920 manual and then find which buttton does what between the two.

You probably want to delete the whole setup tests and then set the poweron test the way you want it.
That is what I did and then added in a few other test setups that I often use.

73

--- On Mon, 9/10/12, Jim Broome <jim@...> wrote:

>From: Jim Broome <jim@...>
>Subject: RE: [hp8924] Instrument setups

>To: hp8924@yahoogroups.com
>Date: Monday, September 10, 2012, 10:19 AM
>
>Thanks Ralph.  I knew it was simple.
>Jim W4JDB
>

# 1097. RE: [hp8924] Instrument setups

Yahoo group: hp8924
Date: 2012-09-14 18:37:10 UTC
From: Ralph Mowery
Topic: 1070  Message: 1097

Jim here is one one ebay that I know works as I have one like it.

Ebay number
220913294228

It is an Eiger 2 MB SRAM card.  On the back is P/N EPM-2000S

There are also some cards with an F on the end of the number instead of the S.  So becareful.  I do not know if the F versions will work or not.  The F card also has FLASH on the front instead of SRAM.  The FLASH is about $ 20 and the SRAM is about $ 100.

The 2 MB is large enough to do the image file ,  or you can just format the card in the 8924 and use any file transfer program to drag the files over.  I would do the drag file thing so you can use the card to store other setups.  I think the 8924 calls it initilize instead of fromat on the screen.

Also it seems that some computers will program the SRAM cards and some will not.  I could not get one to program at work on a laptop, but have a laptop at home that will program the cards fine.

If you do not already have them, you will need two things to use with the RF  Toosl program.  One is a return loss bridge.  You can buy them for over $ 100, but for general work a Mini Circuits ZFDC-20-5 will work well for a lot less.  This can be used for return loss measurments without the rf tools program also.  To do the cable fault program you will need a spliter.  Mini circuits makes them also.
Look in the rf tools manual to see how to use them.

You may try putting a good dummy load where the antenna is on the feedline and then doing a return loss.  If the return loss is very high, you may have a bad transmission line.
I have not been following the thread too close.  I hope you know what retrun loss is and how to apply it to things.  In its simplest form, it is just SWR expressed in other terms.

Good luck.

--- On Fri, 9/14/12, Jim Broome <jim@...> wrote:

From: Jim Broome <jim@battery-rebuilders.com>
Subject: RE: [hp8924] Instrument setups
To: hp8924@yahoogroups.com
Date: Friday, September 14, 2012, 11:04 AM

Sorry to be a pain, but what PCMCIA card works.  There are so dang many on Ebay,  I don’t want to get one that won’t work.
One of the Amateur clubs that has some UHF repeaters in most of the communities locally is having problems with a cable situation at one of their sites.  Seems that the owner put a firewall up in the attic of the building and must have damaged a cable.  Want to use the cable fault finder app for a trial run.  Gotta get a PCMCIA card for my baby.
Thanks. . .  Jim W4JDB

# 1098. Re: [hp8924] Instrument setups

Yahoo group: hp8924
Date: 2012-09-14 21:31:13 UTC
From: Rix Seacord
Topic: 1070  Message: 1098

Jim
Considering how much the unit weighs, I would check with local hams or club members and see who has an antenna analyzer. They only weigh a few pounds compared to 60+.
Good luck
Rix

On 9/14/2012 11:04 AM, Jim Broome wrote:
>
> Sorry to be a pain, but what PCMCIA card works. There are so dang
> many on Ebay, I don't want to get one that won't work.
>
> One of the Amateur clubs that has some UHF repeaters in most of the
> communities locally is having problems with a cable situation at one
> of their sites. Seems that the owner put a firewall up in the attic
> of the building and must have damaged a cable. Want to use the cable
> fault finder app for a trial run. Gotta get a PCMCIA card for my baby.
>
> Thanks. . . Jim W4JDB
>
> *From:*hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] *On
> Behalf Of *Ralph Mowery
> *Sent:* Monday, September 10, 2012 10:34 AM
> *To:* hp8924@yahoogroups.com
> *Subject:* RE: [hp8924] Instrument setups
>
>
>
>
> Jim , most of the things on the 8924 are simple....
>
> YOu just have to find them in one of several manuals that is about
> the size of the New York telephone directory :-)
>
> Also the 8924 manual is almost useless for anything but cell phones
> and you have to go to the 8920 manual and then find which buttton does
> what between the two.
>
> You probably want to delete the whole setup tests and then set the
> poweron test the way you want it.
>
> That is what I did and then added in a few other test setups that I
> often use.
>
> 73

>
>
>
> --- On *Mon, 9/10/12, Jim Broome /<jim@...>/* wrote:
>
>
> From: Jim Broome <jim@...>
> Subject: RE: [hp8924] Instrument setups
> To: hp8924@yahoogroups.com
> Date: Monday, September 10, 2012, 10:19 AM
>
> Thanks Ralph. I knew it was simple.
>
> Jim W4JDB
>
>
>
>
>

# 1099. Re: Memory card explorer...help needed!

Yahoo group: hp8924
Date: 2012-09-14 22:23:30 UTC
From: Don
Topic: 1083  Message: 1099

Well, got the card yesterday, and it IS an SRAM card!. Unfortunately, the CR2025 battery inside was dead as a doornail. Had to make a trip to Best Buy to buy a replacement battery. The card with the new battery was thankfully recognized by the 8924C and I was able to format it. However, while my laptop recognized the card and assigned it a drive letter, I was unable to access the card to transfer files(got an error message). Fortunately Plan B (using Memory Card Explorer) worked great and I was able to get RF Tools on the card and so far, the 8924 has not had any problems loading the programs. Haven't actually used any of the programs yet, just made sure they loaded.

BTW, any idea as to how long the battery will last in the card? I want to replace it before it dies.

Don

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Hi Don,
> Definately an SRAM card.Â  They are the easiest to use. Format it in the 8924C and you should be able to drag and drop in Windows rather than having to use MCE.
> Â
> Robert G8RPI.
>
>
> _____
> From: Don <donald_s_58103@...>
> To: hp8924@yahoogroups.com
> Sent: Thursday, 13 September 2012, 13:06
> Subject: [hp8924] Re: Memory card explorer...help needed!
>
> Â
> Forgot to mention this in my previous post... it also appears to have a battery. Given this information, do you think it is an SRAM card or a PROM card?
>
> Don
>
> --- In mailto:hp8924%40yahoogroups.com, "Don" <donald_s_58103@> wrote:
> >
> > Hi Robert,
> >
> > I sure hope it is an SRAM card! Although it is an HP original card, it holds beta software and has the part # hand-written on the label. Also, the card has the small switch at the bottom for write-protection, so I am assuming (hoping) that it is not a PROM card and that it is an SRAM card.
> >
> > Don
> >

> > --- In mailto:hp8924%40yahoogroups.com, Robert Atkinson <robert8rpi@> wrote:
> > >
> > > Hi Don,
> > > Are you sure it's an SRAM card? I thought that the software option cards were ROM types. They did use SRAM cards but normally just for Setups and users own programs. The problem with SRAM is if the batttery discharges aor is not changed properly you loose the program. A ROMÃ□Â card of that era is most likely to be PROM (EPROM without the quartz window) which cannot be re-used.
> > > Ã□Â
> > > Regards,
> > > Robert.
> > >
> > >
> > > _____
> > > From: Don <donald_s_58103@>
> > > To: mailto:hp8924%40yahoogroups.com
> > > Sent: Wednesday, 12 September 2012, 20:15
> > > Subject: [hp8924] Re: Memory card explorer...help needed!
> > >
> > > Ã□Â
> > > Hi Robert,
> > >
> > > I will be getting an original HP SRAM PCMCIA card. It has some other option installed (not OPT100). I am planning on ersing the card and putting the RF Tools program on it. I do have an older laptop running Win XP which has a PCMCIA card slot.
> > >
> > > Don
> > >
> > > --- In mailto:hp8924%40yahoogroups.com, Robert Atkinson <robert8rpi@> wrote:
> > > >
> > > > Hi Don,
> > > > What type of card are you grtting? The process depends on the card type as do the computer requirements.
> > > > Ã□â□□Ã□Â
> > > > Robert.
> > > > Ã□â□□Ã□Â
> > > >
> > > >
> > > > _____
> > > > From: donald_s_58103 <donald_s_58103@>
> > > > To: mailto:hp8924%40yahoogroups.com
> > > > Sent: Wednesday, 12 September 2012, 0:26
> > > > Subject: [hp8924] Memory card explorer...help needed!
> > > >
> > > > Ã□â□□Ã□Â
> > > > I just installed memory card explorer (from the files section of this Forum). It was very confusing to say the least since the directions are not clear. Anyway, I followed the meager installation instructions and I *think* the program has installed. I was not sure what to do with the two files (z02 and z01) but Winzip tells me that they are spanned zip files, so I am assuming that running the executable (memorycard.zip) will automatically consolidate the files and do the installation.
> > > >

> > > > Now that I have installed it, I am not sure how to run the program. When I click on the program icon in Win XP, I see two choices for the memory card explorer program (one is simply labelled MCE and the other is labelled MCE (Auto Mem Win Setup). Which one of the two should I run? I did not want to just randomly run either one for fear of doing something irrevocable. I am looking for guidance from those who have successfully installed and run the program from the files obtained from the files section of this Forum. Thanks in advance for your input.
> > > >
> > > > Don
> > > >
> > >
> >
>

# 1100. Re: [hp8924] Re: Memory card explorer...help needed!

Yahoo group: hp8924
Date: 2012-09-14 23:46:01 UTC
From: Ralph Mowery
Topic: 1083  Message: 1100

Fine on getting a card that works.
I think the battery will last a year or so.  The way I understand it, you can leave the card in the 8924 while changing the battery and you will not have to reprogram it.

I would not depend on the battery holding the program long term, just be ready to put in a new battery and reload the program a year or so from now.

I have two 256 K cards that have a rechargable battery inside it.  The card recharges from the device it is plugged into.  If fully charged it is suspose to hold the memory for about 6 months.  I think they rate the card as a 10 year life. They are probably near that now.

--- On Fri, 9/14/12, Don <donald_s_58103@...> wrote:

From: Don <donald_s_58103@...>
Subject: [hp8924] Re: Memory card explorer...help needed!
To: hp8924@yahoogroups.com
Date: Friday, September 14, 2012, 6:23 PM

Well, got the card yesterday, and it IS an SRAM card!. Unfortunately, the CR2025 battery inside was dead as a doornail. Had to make a trip to Best Buy to buy a replacement battery. The card with the new battery was thankfully recognized by the 8924C and I was able to format it. However, while my laptop recognized the card and assigned it a drive letter, I was unable to access the card to transfer files(got an error message). Fortunately Plan B (using Memory Card Explorer) worked great and I was able to get RF Tools on the card and so far, the 8924 has not had any problems loading the programs. Haven't actually used any of the programs yet, just made sure they loaded.

BTW, any idea as to how long the battery will last in the card? I want to replace it before it dies.

Don

# 1101. Re: [hp8924] Instrument setups

Yahoo group: hp8924
Date: 2012-09-15 05:37:27 UTC
From: Thomas Seizer
Topic: 1070  Message: 1101

Hi Robert:
I am a member of the 8924C users group, and wish to purchase a programmed card from you. How much would the total be, and I will deposit it in your PayPal account tomorrow. I thank you very much, and you are such a great help;

Thomas Seizer K9SQU
8047 S. 59th St.
Franklin, Wisconsin, USA
tseizer@...

----- Original Message -----
From: Robert Atkinson
To: hp8924@yahoogroups.com
Sent: Friday, September 14, 2012 11:53 AM
Subject: Re: [hp8924] Instrument setups

Hi Jim,
The only type that is sure to work is an SRAM card. You need atleast 512k for the card image or 128k for just the return loss. Looking at buy it nows on ebay.com, I can do you a programmed PROM card for less. I charge 35 UK Pounds (about $55 US) inc postage (airmail to USA) to list members. This includes RF Tools and North American FM tests. My ebay price is higher, see item 261096497748. If you want a card payment is by PayPal to this email address.

Regards,
Robert G8RPI.

From: Jim Broome <jim@battery-rebuilders.com>
To: hp8924@yahoogroups.com
Sent: Friday, 14 September 2012, 16:04
Subject: RE: [hp8924] Instrument setups

Sorry to be a pain, but what PCMCIA card works. There are so dang many on Ebay, I don’t want to get one that won’t work.
One of the Amateur clubs that has some UHF repeaters in most of the communities locally is having problems with a cable situation at one of their sites. Seems that the owner put a firewall up in the attic of the building and must have damaged a cable. Want to use the cable fault finder app for a trial run. Gotta get a PCMCIA card for my baby.
Thanks. . . Jim W4JDB

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Ralph Mowery
Sent: Monday, September 10, 2012 10:34 AM
To: hp8924@yahoogroups.com
Subject: RE: [hp8924] Instrument setups

Jim , most of the things on the 8924 are simple....

YOu just have to find them in one of several manuals that is about the size of the New York telephone directory :-)

Also the 8924 manual is almost useless for anything but cell phones and you have to go to the 8920 manual and then find which buttton does what between the two.

You probably want to delete the whole setup tests and then set the poweron test the way you want it.
That is what I did and then added in a few other test setups that I often use.

73

--- On Mon, 9/10/12, Jim Broome <jim@...> wrote:

From: Jim Broome <jim@...>
Subject: RE: [hp8924] Instrument setups
To: hp8924@yahoogroups.com
Date: Monday, September 10, 2012, 10:19 AM

Thanks Ralph. I knew it was simple.
Jim W4JDB

# 1102. Re: [hp8924] Instrument setups

Yahoo group: hp8924
Date: 2012-09-15 07:33:14 UTC
From: Robert Atkinson
Topic: 1070  Message: 1102

Hi Tom,
The total for a PROM card  programmed with 11807E Opt 100 ( System Support Tools Inc.RF Tools and North American FM tests) and a CD-ROM with the manuals is 35 UK Pounds (about $50-$60 US) including shipping by airmail. Payment by PayPal to this ewmail address is ideal.

Regards,
Robert G8RPI.

---
From: Thomas Seizer <tseizer@...>
To: hp8924@yahoogroups.com
Sent: Saturday, 15 September 2012, 6:37
Subject: Re: [hp8924] Instrument setups

□
Hi Robert:
I am a member of the 8924C users group, and wish to purchase a programmed card from you. How much would the total be, and I will deposit it in your PayPal account tomorrow. I thank you very much, and you are such a great help;

Thomas Seizer  K9SQU
8047 S. 59th St.
Franklin, Wisconsin, USA
tseizer@...

----- Original Message -----
>From: Robert Atkinson
>To: hp8924@yahoogroups.com
>Sent: Friday, September 14, 2012 11:53 AM
>Subject: Re: [hp8924] Instrument setups
>
>
>Hi Jim,
>The only type that is sure to work is an SRAM card. You need atleast 512k for the card image or 128k for just the return loss. Looking at buy it nows on ebay.com, I can do you a programmed PROM card for less. I charge 35 UK Pounds (about $55 US) inc postage (airmail to USA) to list members. This includes RF Tools and North American FM tests. My ebay price is higher, see item 261096497748. If you want a card payment is by PayPal to this email address.
>
>Regards,
>Robert G8RPI.
>
>
>
>_____

>From: Jim Broome <jim@battery-rebuilders.com>
>To: hp8924@yahoogroups.com
>Sent: Friday, 14 September 2012, 16:04
>Subject: RE: [hp8924] Instrument setups
>
>
>Sorry to be a pain, but what PCMCIA card works.  There are so dang many on Ebay,  I don't want to get one that won't work.
>One of the Amateur clubs that has some UHF repeaters in most of the communities locally is having problems with a cable situation at one of their sites.  Seems that the owner put a firewall up in the attic of the building and must have damaged a cable.  Want to use the cable fault finder app for a trial run.  Gotta get a PCMCIA card for my baby.
>Thanks. . .  Jim W4JDB
>
>From:hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Ralph Mowery
>Sent: Monday, September 10, 2012 10:34 AM
>To: hp8924@yahoogroups.com
>Subject: RE: [hp8924] Instrument setups
>
>Jim , most of the things on the 8924 are simple....
>
>
> YOu just have to find them in one of several manuals that is about the size of the New York telephone directory :-)
>
>
>Also the 8924 manual is almost useless for anything but cell phones and you have to go to the 8920 manual and then find which buttton does what between the two.
>
>
>
>
>You probably want to delete the whole setup tests and then set the poweron test the way you want it.
>That is what I did and then added in a few other test setups that I often use.
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>
>73
>--- On Mon, 9/10/12, Jim Broome <jim@battery-rebuilders.com> wrote:
>From: Jim Broome <jim@...>Subject: RE: [hp8924] Instrument setupsTo: hp8924@yahoogroups.comDate: Monday, September 10, 2012, 10:19 AM
>>
>>
>>Thanks Ralph.  I knew it was simple.
>>Jim W4JDB
>>

# 1103. Re: [hp8924] Instrument setups

Yahoo group: hp8924
Date: 2012-09-15 07:40:03 UTC
From: Robert Atkinson
Topic: 1070  Message: 1103

Hi,
Sorry to advertise but you could buy a ready programmed Prom card for less. See item 261096497748, about $88 , less if you make an offer or even less if you contact me directly.

Regards,
Robert.

---
From: Ralph Mowery <ku4pt@...>
To: hp8924@yahoogroups.com
Sent: Friday, 14 September 2012, 19:37
Subject: RE: [hp8924] Instrument setups

Jim here is one one ebay that I know works as I have one like it.

Ebay number 220913294228

It is an Eiger 2 MB SRAM card.  On the back is P/N EPM-2000S

There are also some cards with an F on the end of the number instead of the S.  So becareful.  I do not know if the F versions will work or not.  The F card also has FLASH on the front instead of SRAM.  The FLASH is about $ 20 and the SRAM is about $ 100.

The 2 MB is large enough to do the image file ,  or you can just format the card in the 8924 and use any file transfer program to drag the files over.  I would do the drag file thing so you can use the card to store other setups.  I think the 8924 calls it initilize instead of fromat on the screen.

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If you do not already have them, you will need two things to use with the RF  Toosl program.  One is a return loss bridge.  You can buy them for over $ 100, but for general work a Mini Circuits ZFDC-20-5 will work well for a lot less.  This can be used for return loss measurments without the rf tools program also.  To do the cable fault program you will need a spliter.  Mini circuits makes them also.
Look in the rf tools manual to see how to use them.

You may try putting a good dummy load where the antenna is on the feedline and then doing a return loss.  If the return loss is very high, you may have a bad transmission line.
I have not been following the thread too close.  I hope you know what retrun loss is and how to apply it to things.  In its simplest form, it is just SWR expressed in other terms.

Good luck.

--- On Fri, 9/14/12, Jim Broome <jim@...> wrote:

>From: Jim Broome <jim@...>
>Subject: RE: [hp8924] Instrument setups
>To: hp8924@yahoogroups.com
>Date: Friday, September 14, 2012, 11:04 AM
>
>
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>Thanks. . .  Jim W4JDB
>

# 1104. Re: [hp8924] Re: Memory card explorer...help needed!

Yahoo group: hp8924
Date: 2012-09-15 07:53:46 UTC
From: Robert Atkinson
Topic: 1083  Message: 1104

Hi Don,
Great that the card works OK. The ability to drag and drop seems to depend on a number of factors. Firstly is how the 8924C formats the card. I've seen conflictining information on this and think that different setups or firmware vesion may do it differently. Second is the exact card type and the presence of drivers on the PC. The drivers seem to be propritary and not easally available. Some laptops have them some don't.

Regards.
Robert G8RPI.

_____
From: Don <donald_s_58103@yahoo.com>
To: hp8924@yahoogroups.com
Sent: Friday, 14 September 2012, 23:23
Subject: [hp8924] Re: Memory card explorer...help needed!

Well, got the card yesterday, and it IS an SRAM card!. Unfortunately, the CR2025 battery inside was dead as a doornail. Had to make a trip to Best Buy to buy a replacement battery. The card with the new battery was thankfully recognized by the 8924C and I was able to format it. However, while my laptop recognized the card and assigned it a drive letter, I was unable to access the card to transfer files(got an error message). Fortunately Plan B (using Memory Card Explorer) worked great and I was able to get RF Tools on the card and so far, the 8924 has not had any problems loading the programs. Haven't actually used any of the programs yet, just made sure they loaded.

BTW, any idea as to how long the battery will last in the card? I want to replace it before it dies.

Don

--- In mailto:hp8924%40yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Hi Don,
> Definately an SRAM card.Â  They are the easiest to use. Format it in the 8924C and you should be able to drag and drop in Windows rather than having to use MCE.
> Â
> Robert G8RPI.
>
>
> _____
> From: Don <donald_s_58103@...>
> To: mailto:hp8924%40yahoogroups.com
> Sent: Thursday, 13 September 2012, 13:06
> Subject: [hp8924] Re: Memory card explorer...help needed!
>
> Â

> Forgot to mention this in my previous post... it also appears to have a battery. Given this information, do you think it is an SRAM card or a PROM card?
>
> Don
>
> --- In mailto:hp8924%40yahoogroups.com, "Don" <donald_s_58103@> wrote:
> >
> > Hi Robert,
> >
> > I sure hope it is an SRAM card! Although it is an HP original card, it holds beta software and has the part # hand-written on the label. Also, the card has the small switch at the bottom for write-protection, so I am assuming (hoping) that it is not a PROM card and that it is an SRAM card.
> >
> > Don
> >
> > --- In mailto:hp8924%40yahoogroups.com, Robert Atkinson <robert8rpi@> wrote:
> > >
> > > Hi Don,
> > > Are you sure it's an SRAM card? I thought that the software option cards were ROM types. They did use SRAM cards but normally just for Setups and users own programs. The problem with SRAM is if the batttery discharges aor is not changed properly you loose the program. A ROMÃ‚Â card of that era is most likely to be PROM (EPROM without the quartz window) which cannot be re-used.
> > > Ã‚Â
> > > Regards,
> > > Robert.
> > >
> > >
> > > _____
> > > From: Don <donald_s_58103@>
> > > To: mailto:hp8924%40yahoogroups.com
> > > Sent: Wednesday, 12 September 2012, 20:15
> > > Subject: [hp8924] Re: Memory card explorer...help needed!
> > >
> > > Ã‚Â
> > > Hi Robert,
> > >
> > > I will be getting an original HP SRAM PCMCIA card. It has some other option installed (not OPT100). I am planning on ersing the card and putting the RF Tools program on it. I do have an older laptop running Win XP which has a PCMCIA card slot.
> > >
> > > Don
> > >
> > > --- In mailto:hp8924%40yahoogroups.com, Robert Atkinson <robert8rpi@> wrote:
> > > >
> > > > Hi Don,
> > > > What type of card are you grtting? The process depends on the card type as do the computer requirements.
> > > > Ãƒâ€šÃ‚Â

> > > > Robert.
> > > > Ãƒâ€šÃ‚Â
> > > >
> > > >
> > > > _____
> > > > From: donald_s_58103 <donald_s_58103@>
> > > > To: mailto:hp8924%40yahoogroups.com
> > > > Sent: Wednesday, 12 September 2012, 0:26
> > > > Subject: [hp8924] Memory card explorer...help needed!
> > > >
> > > > Ãƒâ€šÃ‚Â
> > > > I just installed memory card explorer (from the files section of this Forum). It was very confusing to say the least since the directions are not clear. Anyway, I followed the meager installation instructions and I *think* the program has installed. I was not sure what to do with the two files (z02 and z01) but Winzip tells me that they are spanned zip files, so I am assuming that running the executable (memorycard.zip) will automatically consolidate the files and do the installation.
> > > >
> > > > Now that I have installed it, I am not sure how to run the program. When I click on the program icon in Win XP, I see two choices for the memory card explorer program (one is simply labelled MCE and the other is labelled MCE (Auto Mem Win Setup). Which one of the two should I run? I did not want to just randomly run either one for fear of doing something irrevocable. I am looking for guidance from those who have successfully installed and run the program from the files obtained from the files section of this Forum. Thanks in advance for your input.
> > > >
> > > > Don
> > > >
> > >
> >
>

# 1105. Re: [hp8924] Instrument setups

Yahoo group: hp8924
Date: 2012-09-15 14:21:48 UTC
From: Ralph Mowery
Topic: 1070  Message: 1105

Yes, you do have a good deal Robert.

The card I got was much less, but I just wanted to show the other fellow  a card type that I know works.

Thanks for making the cards and also for the help you gave me a while back while I was trying to program a card.

--- On Sat, 9/15/12, Robert Atkinson <robert8rpi@...> wrote:

From: Robert Atkinson <robert8rpi@...>
Subject: Re: [hp8924] Instrument setups
To: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
Date: Saturday, September 15, 2012, 3:40 AM

Hi,
Sorry to advertise but you could buy a ready programmed Prom card for less. See item 261096497748, about $88 , less if you make an offer or even less if you contact me directly.

Regards,
Robert.

# 1106. HP8924 on EBAy

Yahoo group: hp8924
Date: 2012-09-15 18:25:08 UTC
From: William
Topic: 1106  Message: 1106

I noticed a HP8924E on EBAY, at this point the price is very reasonable.
search for item 320982512276
Bill Higdon

# 1107. Re: [hp8924] Instrument setups

Yahoo group: hp8924
Date: 2012-09-16 06:20:17 UTC
From: jim mij
Topic: 1070  Message: 1107

Jim

A low cost Time Domain Reflectometer is available at
http://www.epanorama.net/circuits/tdr.html

I built one "dead ant style", tweaked the timing capacitor, and it worked well with a 30MHz scope and 150MHz probes.

Demonstrated on a low bandwidth (5 to 10MHz) scope at the radio club with limited success.

regards
jim

---
From: Rix Seacord <eseacord@...>
To: hp8924@yahoogroups.com
Sent: Saturday, 15 September 2012 9:31 AM
Subject: Re: [hp8924] Instrument setups

JimConsidering how much the unit weighs, I would check with local hams or club members and see who has an antenna analyzer. They only weigh a few pounds compared to 60+.Good luckRix
On 9/14/2012 11:04 AM, Jim Broome wrote:

>Sorry to be a pain, but what PCMCIA card works.  There are so dang many on Ebay,  I don't want to get one that won't work.
>One of the Amateur clubs that has some UHF repeaters in most of the communities locally is having problems with a cable situation at one of their sites.  Seems that the owner put a firewall up in the attic of the building and must have damaged a cable.  Want to use the cable fault finder app for a trial run.  Gotta get a PCMCIA card for my baby.
>Thanks. . .  Jim W4JDB
>
>From:hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Ralph Mowery
>Sent: Monday, September 10, 2012 10:34 AM
>To: hp8924@yahoogroups.com
>Subject: RE: [hp8924] Instrument setups
>
>
>
>
>
>Jim , most of the things on the 8924 are simple....
>
> YOu just have to find them in one of several manuals that is about the size of the New York telephone directory :-)
>
>Also the 8924 manual is almost useless for anything but cell phones and you have to go to the 8920 manual and then find which buttton does what between the two.

>
>
>You probably want to delete the whole setup tests and then set the poweron test the way you want it.
>That is what I did and then added in a few other test setups that I often use.
>
>73
>
>
>--- On Mon, 9/10/12, Jim Broome mailto:jim@... wrote:
>
>>From: Jim Broome mailto:jim@battery-rebuilders.com
>>Subject: RE: [hp8924] Instrument setups
>>To: hp8924@yahoogroups.com
>>Date: Monday, September 10, 2012, 10:19 AM
>>
>>Thanks Ralph.  I knew it was simple.
>>Jim W4JDB
>>
>
>
>
>

# 1108. Duplex output level low

Yahoo group: hp8924
Date: 2012-09-19 00:49:06 UTC
From: BigFoot
Topic: 1108  Message: 1108

Hello
My duplex output level is about 7 db lower than it should be. I suppect it received some RF overload and toasted the output pad or whatever is there. Is this something you guys repair yourselves or do you have it sent off. Where can I get parts if I repair it and where would be the best place to send it if I can't repair it myself.
Thanks
Ben

# 1109. RE: [hp8924] Duplex output level low

Yahoo group: hp8924
Date: 2012-09-19 00:57:55 UTC
From: Jim Broome
Topic: 1108  Message: 1109

I would contact Rick at Amtronix Instruments, Inc. [rab@...] He
seems to be full of information and will talk to you. Not like some
equipment depots.

Jim W4JDB
-----Original Message-----
From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of
BigFoot
Sent: Tuesday, September 18, 2012 8:49 PM
To: hp8924@yahoogroups.com
Subject: [hp8924] Duplex output level low

Hello
My duplex output level is about 7 db lower than it should be. I suppect it
received some RF overload and toasted the output pad or whatever is there.
Is this something you guys repair yourselves or do you have it sent off.
Where can I get parts if I repair it and where would be the best place to
send it if I can't repair it myself.
Thanks
Ben

---

Yahoo! Groups Links

# 1110. Re: [hp8924] Duplex output level low

Yahoo group: hp8924
Date: 2012-09-19 03:13:05 UTC
From: Ralph Mowery
Topic: 1108  Message: 1110

Did you go into the setup area and check to see if the output is set for a 50 ohm or open circuit voltage ?  There is 6 db differance if I remember correctly.

Also most drop the output as you go lower than 30 mhz, but you probably know that.

--- On Tue, 9/18/12, BigFoot <k9bf73@...> wrote:

From: BigFoot <k9bf73@...>
Subject: [hp8924] Duplex output level low
To: hp8924@yahoogroups.com
Date: Tuesday, September 18, 2012, 8:49 PM

Hello
My duplex output level is about 7 db lower than it should be. I suppect it received some RF overload and toasted the output pad or whatever is there. Is this something you guys repair yourselves or do you have it sent off. Where can I get parts if I repair it and where would be the best place to send it if I can't repair it myself.
Thanks
Ben

---

Yahoo! Groups Links

# 1111. Re: Duplex output level low

Yahoo group: hp8924
Date: 2012-09-19 05:28:00 UTC
From: wb6dgn_tom@att.net
Topic: 1108  Message: 1111

SECONDED
Tom

--- In hp8924@yahoogroups.com, "Jim Broome" <jim@...> wrote:
>
> I would contact Rick at Amtronix Instruments, Inc. [rab@...] He
> seems to be full of information and will talk to you. Not like some
> equipment depots.
>
> Jim W4JDB
> -----Original Message-----
> From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of
> BigFoot
> Sent: Tuesday, September 18, 2012 8:49 PM
> To: hp8924@yahoogroups.com
> Subject: [hp8924] Duplex output level low
>
> Hello
> My duplex output level is about 7 db lower than it should be. I suppect it
> received some RF overload and toasted the output pad or whatever is there.
> Is this something you guys repair yourselves or do you have it sent off.
> Where can I get parts if I repair it and where would be the best place to
> send it if I can't repair it myself.
> Thanks
> Ben
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>

# 1112. Re: Duplex output level low

Yahoo group: hp8924
Date: 2012-09-19 14:09:29 UTC
From: BigFoot
Topic: 1108  Message: 1112

Thanks Guys, I will do that
Ben

--- In hp8924@yahoogroups.com, "wb6dgn_tom@..." <wb6dgn_tom@...> wrote:
>
> SECONDED
> Tom
>
> --- In hp8924@yahoogroups.com, "Jim Broome" <jim@> wrote:
> >
> > I would contact Rick at Amtronix Instruments, Inc. [rab@] He
> > seems to be full of information and will talk to you. Not like some
> > equipment depots.
> >
> > Jim W4JDB
> > -----Original Message-----
> > From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of
> > BigFoot
> > Sent: Tuesday, September 18, 2012 8:49 PM
> > To: hp8924@yahoogroups.com
> > Subject: [hp8924] Duplex output level low
> >
> > Hello
> > My duplex output level is about 7 db lower than it should be. I suppect it
> > received some RF overload and toasted the output pad or whatever is there.
> > Is this something you guys repair yourselves or do you have it sent off.
> > Where can I get parts if I repair it and where would be the best place to
> > send it if I can't repair it myself.
> > Thanks
> > Ben
> >
> >
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >
>

# 1113. Screen capture problem....

Yahoo group: hp8924
Date: 2012-09-28 02:55:50 UTC
From: Don
Topic: 1113  Message: 1113

This Forum has been very quiet for the last several days, so I am hoping to stir up some activity!

I just got a DB9 female to RJ-11/12 adapter to use the BTS screen capture utility. I am able to capture the screen and save it as a bitmap file. However, I find that the very top part of the screen image is cut-off when it is captured. I have posted some pics showing this in the Photos section under Album "HP 8924C screen capture". Any one else having this problem? Any idea why this is happening and what I can do to fix it?

This is my setup for the screen capture:

Win XP laptop running BTS utility --->
USB-to-serial converter with Prolific chip ---->
DB9 Female to RJ-11 adapter ---->
RJ-11 cable ----> HP8924C

# 1114. Re: Screen capture problem....

Yahoo group: hp8924
Date: 2012-09-29 04:09:27 UTC
From: willcoele@ameritech.net
Topic: 1113  Message: 1114

I think it's a problem using the USB to serial adapter. I'm using an older IBM think pad (P3) with XP. It has a serial port and I don't have any problems. My Think-Pad is networked and I can easily transfer the image to my I5 PC with no degradation of the image

Jack
Willco Electronics

--- In hp8924@yahoogroups.com, "Don" <donald_s_58103@...> wrote:
>
> This Forum has been very quiet for the last several days, so I am hoping to stir up some activity!
>
> I just got a DB9 female to RJ-11/12 adapter to use the BTS screen capture utility. I am able to capture the screen and save it as a bitmap file. However, I find that the very top part of the screen image is cut-off when it is captured. I have posted some pics showing this in the Photos section under Album "HP 8924C screen capture". Any one else having this problem? Any idea why this is happening and what I can do to fix it?
>
> This is my setup for the screen capture:
>
> Win XP laptop running BTS utility --->
> USB-to-serial converter with Prolific chip ---->
> DB9 Female to RJ-11 adapter ---->
> RJ-11 cable ----> HP8924C
>

# 1115. Re: Screen capture problem....

Yahoo group: hp8924
Date: 2012-09-29 11:41:11 UTC
From: Don
Topic: 1113  Message: 1115

I figured out the problem by trial and error. It is not the USB-to-serial adapter. It was the baud rate. I had set the baud rate to 19200 per instructions on the Amtronix site. When I changed the baud rate to 9600, the problem was solved.

Don

--- In hp8924@yahoogroups.com, "willcoele@..." <willcoele@...> wrote:
>
> I think it's a problem using the USB to serial adapter. I'm using an older IBM think pad (P3) with XP. It has a serial port and I don't have any problems. My Think-Pad is networked and I can easily transfer the image to my I5 PC with no degradation of the image
>
> Jack
> Willco Electronics
>
> --- In hp8924@yahoogroups.com, "Don" <donald_s_58103@> wrote:
> >
> > This Forum has been very quiet for the last several days, so I am hoping to stir up some activity!
> >
> > I just got a DB9 female to RJ-11/12 adapter to use the BTS screen capture utility. I am able to capture the screen and save it as a bitmap file. However, I find that the very top part of the screen image is cut-off when it is captured. I have posted some pics showing this in the Photos section under Album "HP 8924C screen capture". Any one else having this problem? Any idea why this is happening and what I can do to fix it?
> >
> > This is my setup for the screen capture:
> >
> > Win XP laptop running BTS utility --->
> > USB-to-serial converter with Prolific chip ---->
> > DB9 Female to RJ-11 adapter ---->
> > RJ-11 cable ----> HP8924C
> >
>

# 1116. Re: Screen capture problem....

Yahoo group: hp8924
Date: 2012-09-29 16:42:03 UTC
From: Joe Leikhim
Topic: 1113  Message: 1116

I would second that thought that the Prolific USB to serial is the problem.

I have struggled to make USB work with an older proprietary serial based SW program and ICOM ICR-9000 receiver. I tried a highly recommended model Staples offered, several different drivers, settings etc to no avail. I ended up dusting off an old COMPAQ computer with WIN 98 installed. Funny thing is that while at my client location running tests, two non IT tech people immediately commented I was running WIN 98! Embarrassing, till I showed them the serial port on the back.

I don't think these cheap ones can faithfully handle timing of the serial streams.

If anyone knows of a USB to serial interface that is truly "industrial grade" and actually faithfully emulates serial. I would love to know.

--

Joe Leikhim

Leikhim and Associates

Communications Consultants

Oviedo, Florida

JLeikhim@...

407-982-0446

WWW.LEIKHIM.COM

# 1117. Re: Screen capture problem....

Yahoo group: hp8924
Date: 2012-09-29 17:55:00 UTC
From: Don
Topic: 1113  Message: 1117

Joe,

You probably overlooked my earlier response...Everything is hunky-dory now. The USB-to-serial adapter works just fine. I just had to dial down the baud rate from 19200 to 9600. It takes just a wee bit longer to do the screen capture, but otherwise everything is as it should be.

Don

--- In hp8924@yahoogroups.com, Joe Leikhim <rhyolite@...> wrote:
>
> I would second that thought that the Prolific USB to serial is the problem.
>
> I have struggled to make USB work with an older proprietary serial based
> SW program and ICOM ICR-9000 receiver. I tried a highly recommended
> model Staples offered, several different drivers, settings etc to no
> avail. I ended up dusting off an old COMPAQ computer with WIN 98
> installed. Funny thing is that while at my client location running
> tests, two non IT tech people immediately commented I was running WIN
> 98! Embarrassing, till I showed them the serial port on the back.
>
> I don't think these cheap ones can faithfully handle timing of the
> serial streams.
>
>
> If anyone knows of a USB to serial interface that is truly "industrial grade" and
actually faithfully emulates serial. I would love to know.
>
> --
>
>
> Joe Leikhim
>
>
> Leikhim and Associates
>
> Communications Consultants
>
> Oviedo, Florida
>
> JLeikhim@...
>
> 407-982-0446
>
> WWW.LEIKHIM.COM
>

# 1118. Re: Screen capture problem....

Yahoo group: hp8924
Date: 2012-09-30 15:06:09 UTC
From: William
Topic: 1113  Message: 1118

I haven't played with the serial port on my 8924 yet, as long as they don't do anything "strange" most USB-232 adapter should work. HP/Agilent does some interesting things on their E645x units, and for those units the only adapter I could find that would work was one made by Rocket IO.
Bill Higdon
--- In hp8924@yahoogroups.com, "Don" <donald_s_58103@...> wrote:
>
> Joe,
>
> You probably overlooked my earlier response...Everything is hunky-dory now. The USB-to-serial adapter works just fine. I just had to dial down the baud rate from 19200 to 9600. It takes just a wee bit longer to do the screen capture, but otherwise everything is as it should be.
>
> Don
>
>
> --- In hp8924@yahoogroups.com, Joe Leikhim <rhyolite@> wrote:
> >
> > I would second that thought that the Prolific USB to serial is the problem.
> >
> > I have struggled to make USB work with an older proprietary serial based
> > SW program and ICOM ICR-9000 receiver. I tried a highly recommended
> > model Staples offered, several different drivers, settings etc to no
> > avail. I ended up dusting off an old COMPAQ computer with WIN 98
> > installed. Funny thing is that while at my client location running
> > tests, two non IT tech people immediately commented I was running WIN
> > 98! Embarrassing, till I showed them the serial port on the back.
> >
> > I don't think these cheap ones can faithfully handle timing of the
> > serial streams.
> >
> >
> > If anyone knows of a USB to serial interface that is truly "industrial grade" and actually faithfully emulates serial. I would love to know.
> >
> > --
> >
> >
> > Joe Leikhim
> >
> >
> > Leikhim and Associates
> >
> > Communications Consultants

> >
> > Oviedo, Florida
> >
> > JLeikhim@
> >
> > 407-982-0446
> >
> > WWW.LEIKHIM.COM
> >
>

# 1119. 8924C Duplexer Tuning

Yahoo group: hp8924
Date: 2012-10-02 05:08:45 UTC
From: Bob - AF6D
Topic: 1119  Message: 1119

I am looking for a YouTube video that will show me step-by-step how to tune a duplexer. I'm just not getting it reading the written word.

I'd like to learn two ways. 1. I guess the traditional way by generating RF into the cans, and 2. Using an Amtronix 1200SW Return Loss Bridge.

I have two types of duplexers. My main is a Sinclair Q2330 and a WaCom WP642.

I'll confess that I get lost translating between the 8920B manual that doesn't appear to have a section on duplexer tuning, and the screens that appear on the 8924C. I do have the POWERON power-up enabled.

Thanks in advance.

A newbie

Bob - AF6D

# 1120. Re: [hp8924] 8924C Duplexer Tuning

Yahoo group: hp8924
Date: 2012-10-02 11:46:08 UTC
From: John (WB5NFC)
Topic: 1119  Message: 1120

Hello Bob,

I understand your frustration. I'm in much the same situation. I've had my 8924 for a couple of years, but just trying to tune a set of Motorola MSR-2000 UHF cans with it now. The results have not been good. Pass band tuning with a return loss bridge is simple enough, but I've never been able to set the notch frequency with the monitor. I even invested in the Measurement Innovation RF Tools software hoping to ease my pain and shorten the learning curve. No luck. I had to revert to the old, tried and true use of a an outboard receiver tuned to the notch frequency and use of the HP/Agilent as a signal source to tune for minimum signal. If I'm doing the math right, I was able to tune the notches within expected specifications using this method.

Here's one of the best videos I found: http://www.youtube.com/watch?v=P1wsG3FIU8w
The author is not using the 8924, but still some good information. You should see a list of similar videos on the right of the page before you hit the play button on this one.

That's not much, but maybe you will find some solace in knowing that another newbie is fighting the same battle....

Good luck. May the force be with you...

73
John / WB5NFC

---
From: Bob - AF6D <bob@...>
To: hp8924@yahoogroups.com
Sent: Tuesday, October 2, 2012 12:08 AM
Subject: [hp8924] 8924C Duplexer Tuning

I am looking for a YouTube video that will show me step-by-step how to tune a duplexer. I'm just not getting it reading the written word.

I'd like to learn two ways. 1. I guess the traditional way by generating RF into the cans, and 2. Using an Amtronix 1200SW Return Loss Bridge.

I have two types of duplexers. My main is a Sinclair Q2330 and a WaCom WP642.

I'll confess that I get lost translating between the 8920B manual that doesn't appear to have a section on duplexer tuning, and the screens that appear on the 8924C. I do have the POWERON power-up enabled.

Thanks in advance.

A newbie

Bob - AF6D

# 1121. Re: [hp8924] 8924C Duplexer Tuning

Yahoo group: hp8924
Date: 2012-10-02 13:49:11 UTC
From: David Cameron
Topic: 1119  Message: 1121

The one important thing this video does not show is adjustment of the coupling loops to adjust the depth of the notch/pass. This is not easy to do, and can throw your whole duplexer out of tune and not able to meet spec if done wrong.

The Sinclair Q series ResLok duplexers are best tuned cavity by cavity, so get a Female-Male-Female N Tee, and two N to BNC cables.

The way I learned was by just playing around. Set it up on one cavity, at a span of 20 megs or so, and adjust everything you can on one cavity/loop until you get a full understanding of what each tuning input does. See how the frequency changes with the adjustment of the tuning rod, how the notches (yes there are TWO on each cavity) are adjusted with the capacitor. Loosen the loop and rotate it around a bit and see what the effect is.

Depending on the application, and the number of cavities, each loop need to be set to give it's fraction of the notch depth and pass loss. For a 4 cavity VHF, it is about 1dB pass loss for a 40dB notch, for a 6 cavity, about .5dB loss for a 30dB notch. After you have adjusted enough, you can set them all by eye :)

One note - if you are starting with a duplexer that was already tuned for a different frequency but the same split (600khz for example), don't play with the loops. They will likely be set fine.

Have a look at this site if you want to see what the dupes look like inside, or if you want to build a 220MHz duplexer :)

http://www.irlp.net/duplexer

Dave Cameron
VE7LTD

---
David Cameron - VE7LTD
IRLP System Designer - http://www.irlp.net

-----Original Message-----
From: "John \(WB5NFC\)" <wb5nfc@yahoo.com>
Sender: hp8924@yahoogroups.com
Date: Tue, 2 Oct 2012 04:46:08
To: hp8924@yahoogroups.com<hp8924@yahoogroups.com>
Reply-To: hp8924@yahoogroups.com
Subject: Re: [hp8924] 8924C Duplexer Tuning

Hello Bob,

I understand your frustration. I'm in much the same situation. I've had my 8924 for a couple of years, but just trying to tune a set of Motorola MSR-2000 UHF cans with it now. The results have not been good. Pass band tuning with a return loss bridge is simple enough, but I've never been able to set the notch frequency with the monitor. I even

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Here's one of the best videos I found: http://www.youtube.com/watch?v=P1wsG3FIU8w
The author is not using the 8924, but still some good information. You should see a list of similar videos on the right of the page before you hit the play button on this one.

That's not much, but maybe you will find some solace in knowing that another newbie is fighting the same battle....

Good luck. May the force be with you...

73
John / WB5NFC

---
From: Bob - AF6D <bob@af6d.com>
To: hp8924@yahoogroups.com
Sent: Tuesday, October 2, 2012 12:08 AM
Subject: [hp8924] 8924C Duplexer Tuning

I am looking for a YouTube video that will show me step-by-step how to tune a duplexer. I'm just not getting it reading the written word.

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I'll confess that I get lost translating between the 8920B manual that doesn't appear to have a section on duplexer tuning, and the screens that appear on the 8924C. I do have the POWERON power-up enabled.

Thanks in advance.

A newbie

Bob - AF6D

# 1122. Re: 8924C Duplexer Tuning

Yahoo group: hp8924
Date: 2012-10-02 14:32:31 UTC
From: bricci101
Topic: 1119  Message: 1122

Thanks, John! Yes, the learning curve is steep and jumping back and forth between an 8920B manual and no manual is a task.

Bob - AF6D

--- In hp8924@yahoogroups.com, "John \(WB5NFC\)" <wb5nfc@...> wrote:
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> Hello Bob,
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# 1123. Re: 8924C Duplexer Tuning

Yahoo group: hp8924
Date: 2012-10-02 14:34:28 UTC
From: Bob - AF6D
Topic: 1119  Message: 1123

As far as I know the Res-Lok cannot be tuned cavity by cavity. The harness is one harness. One places a 50 ohm load at the end of the hi or low section and injects through the antenna port. I think :=) Or is that the RLB way ??? < Insert scream here! >

--- In hp8924@yahoogroups.com, "David Cameron" <dcameron@...> wrote:
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> The one important thing this video does not show is adjustment of the coupling loops to adjust the depth of the notch/pass. This is not easy to do, and can throw your whole duplexer out of tune and not able to meet spec if done wrong.
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> The way I learned was by just playing around. Set it up on one cavity, at a span of 20 megs or so, and adjust everything you can on one cavity/loop until you get a full understanding of what each tuning input does. See how the frequency changes with the adjustment of the tuning rod, how the notches (yes there are TWO on each cavity) are adjusted with the capacitor. Loosen the loop and rotate it around a bit and see what the effect is.
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> Depending on the application, and the number of cavities, each loop need to be set to give it's fraction of the notch depth and pass loss. For a 4 cavity VHF, it is about 1dB pass loss for a 40dB notch, for a 6 cavity, about .5dB loss for a 30dB notch. After you have adjusted enough, you can set them all by eye :)
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> One note - if you are starting with a duplexer that was already tuned for a different frequency but the same split (600khz for example), don't play with the loops. They will likely be set fine.
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> -----Original Message-----
> From: "John \(WB5NFC\)" <wb5nfc@...>
> Sender: hp8924@yahoogroups.com
> Date: Tue, 2 Oct 2012 04:46:08

> To: hp8924@yahoogroups.com<hp8924@yahoogroups.com>
> Reply-To: hp8924@yahoogroups.com
> Subject: Re: [hp8924] 8924C Duplexer Tuning
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# 1124. Re: [hp8924] Re: 8924C Duplexer Tuning

Yahoo group: hp8924
Date: 2012-10-02 16:09:00 UTC
From: David Cameron (IRLP)
Topic: 1119  Message: 1124

Unless you have a weird version or something (I have seen some UHF versions that you can not remove the harness at the coupling loop), each of the cavities is added to the harness with an N connection. Have a look at my site where I dismantle the Q2220E duplexer and you can see all the various parts:

http://www.irlp.net/duplexer/

The harness is a whole other story. Most VHF Res-Loks you will see from the factory have a harness that is center tuned at 161Mhz. You will get about 5db deeper notch (per cavity) and slightly less pass loss (~0.05dB) if you center the harness around the operating frequency. This involves pulling the harness apart and replacing the inter-cavity pieces of RG-142 (I use RG-400), resoldering and recrimping. The formulas are all on the site above. Note that this is not NEEDED, but it does help a bit.

In my tuning of a single cavity for VHF ham band, I go from duplex out through a 10db attenuator (optional but recommended), to one side of the N Tee, from antenna in to the other side of the N Tee. I am using a 8920A, not an 8924.

I set my frequency for the pass freq, the span at 1.2Mhz (600khz on each side), 0db reference, 0db output, set to track, then I normalize the screen. I then attach the female side of the N Tee to the cavity under test.

Center the pass band around the middle of the screen (highest level), and then adjust the capacitor until the notch is in the depth of the edge of the screen (to the right the pass if the cavity is a low pass cavity, like a TX cavity for 147.200 - or to the left of the pass if the cavity is a high pass cavity, like the RX cavity on 147.800). Re-adjust the pass and the notch again. This centers the pass of the cavity, and adjusts the notch 600khz higher or lower.

Repeat for the other cavities. Be sure to know what is the high pass, and what is the low pass. When switching from tuning the high pass side cavities to the low pass side cavities, adjust the center frequency and RE-NORMALIZE.

For VHF ham band, the typical cavity in a Q2330 duplexer should show about 0.4-0.7dB PASS loss, and 25-35dB notch (Q2220E needs to be about 1.0-1.3dB loss with 35-45dB notch. If it does not, you may have to rotate the loop on the cavity by a few degrees, and retune. This is the mastery part of tuning duplexers - With the Res-Lok this is how you adjust the tradeoff between insertion loss and isolation.

Once all the cavities are set up right, put on the harness. Set your center frequency to the LOW PASS freq (147.20 TX). Take your cables off

the N Tee and connect them to an N male barrel connector. RE-NORMALIZE. Connect the duplex out and attenuator cable to the ANTENNA port, the antenna in cable to the LOW PASS equipment port, and put a 50 ohm dummy load on the HIGH PASS equipment port.

Now ever so slightly adjust the pass cavities to get the lowest pass loss. On a Q2330, it should be about 1.5-2.0dB. On a Q2220E, it will be about 2.0-2.5dB. You can temporarily turn off the normalization, and switch to a 2db/division setting to get a better view of the pass. Just be sure to go back to 10db/div before tuning the notch.

Now change the spectrum analyzer center frequency to the high pass frequency, and the reference level to -40. Now adjust the capacitors to line up the notches for the deepest notch. You will have to play around a lot to get it just perfect, but to be honest it doesn't really matter on a Q2330E. The notch depth should be AT LEAST the sum of the notch depths of the individual cavities, but likely about 5-10db deeper. Note that we did not RE-NORMALIZE when we changed the center frequency. Being off by 0.5dB on a notch is not the end of the world :)

REPEAT this on the HIGH PASS side, moving the antenna in to the HIGH PASS equipment port and the dummy load to the LOW PASS.

If any major tuning had to be done between the individual cavity tuning and the harnessed set, you should have a GOOD look at your harness. Test all ports for continuity, and open up the connectors to look for corrosion.

I should make some videos. I have tuned probably 50 Sinclair Res-Lok dupes in my days. All without an RLB, and they all work great :)

Dave Cameron
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On 02/10/2012 7:34 AM, Bob - AF6D wrote:
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>> Date: Tue, 2 Oct 2012 04:46:08
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>> Thanks in advance.
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# 1125. Re: [hp8924] Re: 8924C Duplexer Tuning

Yahoo group: hp8924
Date: 2012-10-02 17:54:07 UTC
From: John (WB5NFC)
Topic: 1119  Message: 1125

Thank you David for the best step-by-step on this process I have seen!

I've already pasted your information into my "Duplexer Tuning" folder for safe-keeping and easy reference.

Bob is the originator of this tread and I don't want to send it too far off in another direction... but I'm going to toss in a new variable into the discussion. The Motorola MSR2000 duplexer I've been wrestling with is the T4080a 4-cavity 406-540 MHz series. The cable kit is cut for the 430-470 portion of the band.  The interconnection between each cavity is soldered - there are no PL or N connectors, so you have to tune each side (two cans) at a time. If I had had your email before I started this project, I would never have TOUCHED those blasted "notch coupling loops & notch coupling probes." They have caused me immeasurable hours of grief. No matter what I tried, I could never "see" a decent notch on the spectrum analyzer. That's why I reverted back to trying to notch out a signal using an S-meter instead of using lab-quality equipment (with a newbie equipment operator at the controls ).

I will take another shot at it tonight after I digest the good information here.

John / WB5NFC

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Sent: Tuesday, October 2, 2012 11:09 AM
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# 1126. Re: [hp8924] Re: 8924C Duplexer Tuning

Yahoo group: hp8924
Date: 2012-10-02 18:18:53 UTC
From: David Cameron (IRLP)
Topic: 1119  Message: 1126

Never touched one of those yet. Thanks for the warning :) I can't find
any reference to that duplexer, but this may help you:

http://www.cactus-intertie.org/LA/tec_not6.pdf

You may want to try the repeater-builder Yahoo group also.

I think I will stick to the Res-Lok :)

Dave Cameron

On 02/10/2012 10:54 AM, John (WB5NFC) wrote:
> Thank you David for the best step-by-step on this process I have seen!
>
> I've already pasted your information into my "Duplexer Tuning" folder for safe-keeping
and easy reference.
>
> Bob is the originator of this tread and I don't want to send it too far off in another
direction... but I'm going to toss in a new variable into the discussion. The Motorola
MSR2000 duplexer I've been wrestling with is the T4080a 4-cavity 406-540 MHz series. The
cable kit is cut for the 430-470 portion of the band. The interconnection between each
cavity is soldered - there are no PL or N connectors, so you have to tune each side (two
cans) at a time. If I had had your email before I started this project, I would never have
TOUCHED those blasted "notch coupling loops & notch coupling probes." They have caused me
immeasurable hours of grief. No matter what I tried, I could never "see" a decent notch on
the spectrum analyzer. That's why I reverted back to trying to notch out a signal using an
S-meter instead of using lab-quality equipment (with a newbie equipment operator at the
controls ).
>
> I will take another shot at it tonight after I digest the good information here.
>
>
> John / WB5NFC
>
>
>
> _____
> From: David Cameron (IRLP) <dcameron@...>
> To: hp8924@yahoogroups.com
> Sent: Tuesday, October 2, 2012 11:09 AM
> Subject: Re: [hp8924] Re: 8924C Duplexer Tuning
>
>
>
> Unless you have a weird version or something (I have seen some UHF
> versions that you can not remove the harness at the coupling loop), each

> of the cavities is added to the harness with an N connection. Have a
> look at my site where I dismantle the Q2220E duplexer and you can see
> all the various parts:
>
> http://www.irlp.net/duplexer/
>
> The harness is a whole other story. Most VHF Res-Loks you will see from
> the factory have a harness that is center tuned at 161Mhz. You will get
> about 5db deeper notch (per cavity) and slightly less pass loss
> (~0.05dB) if you center the harness around the operating frequency. This
> involves pulling the harness apart and replacing the inter-cavity pieces
> of RG-142 (I use RG-400), resoldering and recrimping. The formulas are
> all on the site above. Note that this is not NEEDED, but it does help a bit.
>
> In my tuning of a single cavity for VHF ham band, I go from duplex out
> through a 10db attenuator (optional but recommended), to one side of the
> N Tee, from antenna in to the other side of the N Tee. I am using a
> 8920A, not an 8924.
>
> I set my frequency for the pass freq, the span at 1.2Mhz (600khz on each
> side), 0db reference, 0db output, set to track, then I normalize the
> screen. I then attach the female side of the N Tee to the cavity under test.
>
> Center the pass band around the middle of the screen (highest level),
> and then adjust the capacitor until the notch is in the depth of the
> edge of the screen (to the right the pass if the cavity is a low pass
> cavity, like a TX cavity for 147.200 - or to the left of the pass if the
> cavity is a high pass cavity, like the RX cavity on 147.800). Re-adjust
> the pass and the notch again. This centers the pass of the cavity, and
> adjusts the notch 600khz higher or lower.
>
> Repeat for the other cavities. Be sure to know what is the high pass,
> and what is the low pass. When switching from tuning the high pass side
> cavities to the low pass side cavities, adjust the center frequency and
> RE-NORMALIZE.
>
> For VHF ham band, the typical cavity in a Q2330 duplexer should show
> about 0.4-0.7dB PASS loss, and 25-35dB notch (Q2220E needs to be about
> 1.0-1.3dB loss with 35-45dB notch. If it does not, you may have to
> rotate the loop on the cavity by a few degrees, and retune. This is the
> mastery part of tuning duplexers - With the Res-Lok this is how you
> adjust the tradeoff between insertion loss and isolation.
>
> Once all the cavities are set up right, put on the harness. Set your
> center frequency to the LOW PASS freq (147.20 TX). Take your cables off
> the N Tee and connect them to an N male barrel connector. RE-NORMALIZE.
> Connect the duplex out and attenuator cable to the ANTENNA port, the
> antenna in cable to the LOW PASS equipment port, and put a 50 ohm dummy
> load on the HIGH PASS equipment port.
>

> Now ever so slightly adjust the pass cavities to get the lowest pass
> loss. On a Q2330, it should be about 1.5-2.0dB. On a Q2220E, it will be
> about 2.0-2.5dB. You can temporarily turn off the normalization, and
> switch to a 2db/division setting to get a better view of the pass. Just
> be sure to go back to 10db/div before tuning the notch.
>
> Now change the spectrum analyzer center frequency to the high pass
> frequency, and the reference level to -40. Now adjust the capacitors to
> line up the notches for the deepest notch. You will have to play around
> a lot to get it just perfect, but to be honest it doesn't really matter
> on a Q2330E. The notch depth should be AT LEAST the sum of the notch
> depths of the individual cavities, but likely about 5-10db deeper. Note
> that we did not RE-NORMALIZE when we changed the center frequency. Being
> off by 0.5dB on a notch is not the end of the world :)
>
> REPEAT this on the HIGH PASS side, moving the antenna in to the HIGH
> PASS equipment port and the dummy load to the LOW PASS.
>
> If any major tuning had to be done between the individual cavity tuning
> and the harnessed set, you should have a GOOD look at your harness. Test
> all ports for continuity, and open up the connectors to look for corrosion.
>
> I should make some videos. I have tuned probably 50 Sinclair Res-Lok
> dupes in my days. All without an RLB, and they all work great :)
>
> Dave Cameron
> VE7LTD
>
> On 02/10/2012 7:34 AM, Bob - AF6D wrote:
>> As far as I know the Res-Lok cannot be tuned cavity by cavity. The harness is one
harness. One places a 50 ohm load at the end of the hi or low section and injects through
the antenna port. I think :=) Or is that the RLB way ??? < Insert scream here! >
>>
>> --- In hp8924@yahoogroups.com, "David Cameron" <dcameron@...> wrote:
>>>
>>> The one important thing this video does not show is adjustment of the coupling loops to
adjust the depth of the notch/pass. This is not easy to do, and can throw your whole
duplexer out of tune and not able to meet spec if done wrong.
>>>
>>> The Sinclair Q series ResLok duplexers are best tuned cavity by cavity, so get a
Female-Male-Female N Tee, and two N to BNC cables.
>>>
>>> The way I learned was by just playing around. Set it up on one cavity, at a span of 20
megs or so, and adjust everything you can on one cavity/loop until you get a full
understanding of what each tuning input does. See how the frequency changes with the
adjustment of the tuning rod, how the notches (yes there are TWO on each cavity) are
adjusted with the capacitor. Loosen the loop and rotate it around a bit and see what the
effect is.
>>>
>>> Depending on the application, and the number of cavities, each loop need to be set to

give it's fraction of the notch depth and pass loss. For a 4 cavity VHF, it is about 1dB pass loss for a 40dB notch, for a 6 cavity, about .5dB loss for a 30dB notch. After you have adjusted enough, you can set them all by eye :)
>>>
>>> One note - if you are starting with a duplexer that was already tuned for a different frequency but the same split (600khz for example), don't play with the loops. They will likely be set fine.
>>>
>>> Have a look at this site if you want to see what the dupes look like inside, or if you want to build a 220MHz duplexer :)
>>>
>>> http://www.irlp.net/duplexer
>>>
>>> Dave Cameron
>>> VE7LTD
>>>
>>> ---
>>> David Cameron - VE7LTD
>>> IRLP System Designer - http://www.irlp.net
>>>
>>> -----Original Message-----
>>> From: "John \(WB5NFC\)" <wb5nfc@...>
>>> Sender: hp8924@yahoogroups.com
>>> Date: Tue, 2 Oct 2012 04:46:08
>>> To: hp8924@yahoogroups.com<hp8924@yahoogroups.com>
>>> Reply-To: hp8924@yahoogroups.com
>>> Subject: Re: [hp8924] 8924C Duplexer Tuning
>>>
>>> Hello Bob,
>>>
>>> I understand your frustration. I'm in much the same situation. I've had my 8924 for a couple of years, but just trying to tune a set of Motorola MSR-2000 UHF cans with it now. The results have not been good. Pass band tuning with a return loss bridge is simple enough, but I've never been able to set the notch frequency with the monitor. I even invested in the Measurement Innovation RF Tools software hoping to ease my pain and shorten the learning curve. No luck. I had to revert to the old, tried and true use of a an outboard receiver tuned to the notch frequency and use of the HP/Agilent as a signal source to tune for minimum signal. If I'm doing the math right, I was able to tune the notches within expected specifications using this method.
>>>
>>>
>>> Here's one of the best videos I found: http://www.youtube.com/watch?v=P1wsG3FIU8w
>>> The author is not using the 8924, but still some good information. You should see a list of similar videos on the right of the page before you hit the play button on this one.Â
>>>
>>> That's not much, but maybe you will find some solace in knowing that another newbie is fighting the same battle....
>>>
>>> Good luck. May the force be with you...
>>>

>>> 73
>>> John / WB5NFC
>>>
>>>
>>> _____
>>> From: Bob - AF6D <bob@...>
>>> To: hp8924@yahoogroups.com
>>> Sent: Tuesday, October 2, 2012 12:08 AM
>>> Subject: [hp8924] 8924C Duplexer Tuning
>>>
>>>
>>> Â
>>> I am looking for a YouTube video that will show me step-by-step how to tune a duplexer. I'm just not getting it reading the written word.
>>>
>>> I'd like to learn two ways. 1. I guess the traditional way by generating RF into the cans, and 2. Using an Amtronix 1200SW Return Loss Bridge.
>>>
>>> I have two types of duplexers. My main is a Sinclair Q2330 and a WaCom WP642.
>>>
>>> I'll confess that I get lost translating between the 8920B manual that doesn't appear to have a section on duplexer tuning, and the screens that appear on the 8924C. I do have the POWERON power-up enabled.
>>>
>>> Thanks in advance.
>>>
>>> A newbie
>>>
>>> Bob - AF6D
>>>
>>
>>
>>
>
>
>

# 1127. Re: HP8924 on EBAy

Yahoo group: hp8924
Date: 2012-10-02 21:15:31 UTC
From: wspx472
Topic: 1106  Message: 1127

You should be aware that the "E" model lacks a lot of the features that are used in two way testing. Go to Agilent's website and look closely at the specs for that "E" model before you buy. I got one for cheap and it is a doorstop. I bought it for spares for my "C" that hardly gets used.

--- In hp8924@yahoogroups.com, "William" <willard561@...> wrote:
>
> I noticed a HP8924E on EBAY, at this point the price is very reasonable.
> search for item 320982512276
> Bill Higdon
>

# 1128. Screen Capture issues

Yahoo group: hp8924
Date: 2012-10-02 23:13:21 UTC
From: crcrane@sbcglobal.net
Topic: 1128  Message: 1128

I built the cable from the diagram shown on the link previously posted. I have tried both 19200 and 9600 but I can't get it to work. I am using WinXP on a CF-18 Toughbook.

At one point I did see a bunch of gibberish one one of the screens but I can't recall which one I had open at the time and what I did to get that to happen. Other than that all I ever get is a warning on the 8924's screen indicating something about a port overflow.

# 1129. Re: [hp8924] Screen Capture issues

Yahoo group: hp8924
Date: 2012-10-02 23:24:45 UTC
From: David Cameron (IRLP)
Topic: 1128  Message: 1129

What software are you using to capture the data?
Is it going direct to a hardware serial port, or through a USB adapter?
Are you sure the hardware serial port is set up in the BIOS?
Have you tried to use a program like hyperterminal with a jumper from
pin 2 to pin 3 to verify that the serial port is working correctly?

I have only had experience using a program called printcapture with my
HP8920A to capture screenshots from the monitor.

Dave Cameron
VE7LTD

On 02/10/2012 4:13 PM, crcrane@... wrote:
> I built the cable from the diagram shown on the link previously posted. I have tried both 19200 and 9600 but I can't get it to work. I am using WinXP on a CF-18 Toughbook.
>
> At one point I did see a bunch of gibberish one one of the screens but I can't recall which one I had open at the time and what I did to get that to happen. Other than that all I ever get is a warning on the 8924's screen indicating something about a port overflow.
>
>
>
>

# 1130. Re: Screen Capture issues

Yahoo group: hp8924
Date: 2012-10-03 00:05:58 UTC
From: crcrane@sbcglobal.net
Topic: 1128  Message: 1130

I'm using the BTS Laptop utility with my HP8924C. It's going directly to COM 1 which is a real deal built in port on the PC. The port works fine with any other program so I am of the belief there is nothing in the bios wrong.

--- In hp8924@yahoogroups.com, "David Cameron (IRLP)" <dcameron@...> wrote:
>
> What software are you using to capture the data?
> Is it going direct to a hardware serial port, or through a USB adapter?
> Are you sure the hardware serial port is set up in the BIOS?
> Have you tried to use a program like hyperterminal with a jumper from
> pin 2 to pin 3 to verify that the serial port is working correctly?
>
> I have only had experience using a program called printcapture with my
> HP8920A to capture screenshots from the monitor.
>
> Dave Cameron
> VE7LTD
>
> On 02/10/2012 4:13 PM, crcrane@... wrote:
> > I built the cable from the diagram shown on the link previously posted. I have tried both 19200 and 9600 but I can't get it to work. I am using WinXP on a CF-18 Toughbook.
> >
> > At one point I did see a bunch of gibberish one one of the screens but I can't recall which one I had open at the time and what I did to get that to happen. Other than that all I ever get is a warning on the 8924's screen indicating something about a port overflow.
> >
> >
> >
> >
>

# 1131. RE: [hp8924] Re: Screen Capture issues

Yahoo group: hp8924
Date: 2012-10-03 00:13:35 UTC
From: Jim Broome
Topic: 1128  Message: 1131

Did you set the 8924 print output baud rate and selection to deskjet?

-----Original Message-----
From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of crcrane@...
Sent: Tuesday, October 02, 2012 8:06 PM
To: hp8924@yahoogroups.com
Subject: [hp8924] Re: Screen Capture issues

I'm using the BTS Laptop utility with my HP8924C. It's going directly to COM 1 which is a real deal built in port on the PC. The port works fine with any other program so I am of the belief there is nothing in the bios wrong.

--- In hp8924@yahoogroups.com, "David Cameron (IRLP)" <dcameron@...> wrote:
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> pin 2 to pin 3 to verify that the serial port is working correctly?
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> HP8920A to capture screenshots from the monitor.
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> Dave Cameron
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> > I built the cable from the diagram shown on the link previously posted. I have tried both 19200 and 9600 but I can't get it to work. I am using WinXP on a CF-18 Toughbook.
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> >
> >
> >
> >
>

---

Yahoo! Groups Links

# 1132. Re: Screen Capture issues

Yahoo group: hp8924
Date: 2012-10-03 01:05:00 UTC
From: crcrane@sbcglobal.net
Topic: 1128  Message: 1132

I got it. It was my cable. I made it backward from the drawing. It works great now. Thanks for the replies.

--- In hp8924@yahoogroups.com, "Jim Broome" <jim@...> wrote:
>
> Did you set the 8924 print output baud rate and selection to deskjet?
>
>

# 1133. Re: 8924C Duplexer Tuning

Yahoo group: hp8924
Date: 2012-10-03 04:34:11 UTC
From: Bob - AF6D
Topic: 1119  Message: 1133

DOH! How could I have been so stupid. Of course they disconnect at each can. DOH! But then again the Sinclair instructions wants the three cans on each side tuned as one unit. I have the actual Sinclair document but I also have another document detailing one at a time. I don't know what harness I have or what insertion loss loop. But I know that I have -111dBm isolation and zero desense. The only reason I want to tune is to get rid of the 4 watts of reflected power. Someone else also tuned them without me present and I want to know how to tune.

--- In hp8924@yahoogroups.com, "David Cameron (IRLP)" <dcameron@...> wrote:
>
> Unless you have a weird version or something (I have seen some UHF
> versions that you can not remove the harness at the coupling loop), each
> of the cavities is added to the harness with an N connection. Have a
> look at my site where I dismantle the Q2220E duplexer and you can see
> all the various parts:
>
> http://www.irlp.net/duplexer/
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> The harness is a whole other story. Most VHF Res-Loks you will see from
> the factory have a harness that is center tuned at 161Mhz. You will get
> about 5db deeper notch (per cavity) and slightly less pass loss
> (~0.05dB) if you center the harness around the operating frequency. This
> involves pulling the harness apart and replacing the inter-cavity pieces
> of RG-142 (I use RG-400), resoldering and recrimping. The formulas are
> all on the site above. Note that this is not NEEDED, but it does help a bit.
>
> In my tuning of a single cavity for VHF ham band, I go from duplex out
> through a 10db attenuator (optional but recommended), to one side of the
> N Tee, from antenna in to the other side of the N Tee. I am using a
> 8920A, not an 8924.
>
> I set my frequency for the pass freq, the span at 1.2Mhz (600khz on each
> side), 0db reference, 0db output, set to track, then I normalize the
> screen. I then attach the female side of the N Tee to the cavity under test.
>
> Center the pass band around the middle of the screen (highest level),
> and then adjust the capacitor until the notch is in the depth of the
> edge of the screen (to the right the pass if the cavity is a low pass
> cavity, like a TX cavity for 147.200 - or to the left of the pass if the
> cavity is a high pass cavity, like the RX cavity on 147.800). Re-adjust
> the pass and the notch again. This centers the pass of the cavity, and
> adjusts the notch 600khz higher or lower.
>
> Repeat for the other cavities. Be sure to know what is the high pass,
> and what is the low pass. When switching from tuning the high pass side

> cavities to the low pass side cavities, adjust the center frequency and
> RE-NORMALIZE.
>
> For VHF ham band, the typical cavity in a Q2330 duplexer should show
> about 0.4-0.7dB PASS loss, and 25-35dB notch (Q2220E needs to be about
> 1.0-1.3dB loss with 35-45dB notch. If it does not, you may have to
> rotate the loop on the cavity by a few degrees, and retune. This is the
> mastery part of tuning duplexers - With the Res-Lok this is how you
> adjust the tradeoff between insertion loss and isolation.
>
> Once all the cavities are set up right, put on the harness. Set your
> center frequency to the LOW PASS freq (147.20 TX). Take your cables off
> the N Tee and connect them to an N male barrel connector. RE-NORMALIZE.
> Connect the duplex out and attenuator cable to the ANTENNA port, the
> antenna in cable to the LOW PASS equipment port, and put a 50 ohm dummy
> load on the HIGH PASS equipment port.
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> Now ever so slightly adjust the pass cavities to get the lowest pass
> loss. On a Q2330, it should be about 1.5-2.0dB. On a Q2220E, it will be
> about 2.0-2.5dB. You can temporarily turn off the normalization, and
> switch to a 2db/division setting to get a better view of the pass. Just
> be sure to go back to 10db/div before tuning the notch.
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> Now change the spectrum analyzer center frequency to the high pass
> frequency, and the reference level to -40. Now adjust the capacitors to
> line up the notches for the deepest notch. You will have to play around
> a lot to get it just perfect, but to be honest it doesn't really matter
> on a Q2330E. The notch depth should be AT LEAST the sum of the notch
> depths of the individual cavities, but likely about 5-10db deeper. Note
> that we did not RE-NORMALIZE when we changed the center frequency. Being
> off by 0.5dB on a notch is not the end of the world :)
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> REPEAT this on the HIGH PASS side, moving the antenna in to the HIGH
> PASS equipment port and the dummy load to the LOW PASS.
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> If any major tuning had to be done between the individual cavity tuning
> and the harnessed set, you should have a GOOD look at your harness. Test
> all ports for continuity, and open up the connectors to look for corrosion.
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> I should make some videos. I have tuned probably 50 Sinclair Res-Lok
> dupes in my days. All without an RLB, and they all work great :)
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> On 02/10/2012 7:34 AM, Bob - AF6D wrote:
> > As far as I know the Res-Lok cannot be tuned cavity by cavity. The harness is one
harness. One places a 50 ohm load at the end of the hi or low section and injects through
the antenna port. I think :=) Or is that the RLB way ??? < Insert scream here! >
> >

> > --- In hp8924@yahoogroups.com, "David Cameron" <dcameron@> wrote:
> >>
> >> The one important thing this video does not show is adjustment of the coupling loops to adjust the depth of the notch/pass. This is not easy to do, and can throw your whole duplexer out of tune and not able to meet spec if done wrong.
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> >> The Sinclair Q series ResLok duplexers are best tuned cavity by cavity, so get a Female-Male-Female N Tee, and two N to BNC cables.
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> >> The way I learned was by just playing around. Set it up on one cavity, at a span of 20 megs or so, and adjust everything you can on one cavity/loop until you get a full understanding of what each tuning input does. See how the frequency changes with the adjustment of the tuning rod, how the notches (yes there are TWO on each cavity) are adjusted with the capacitor. Loosen the loop and rotate it around a bit and see what the effect is.
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> >> Depending on the application, and the number of cavities, each loop need to be set to give it's fraction of the notch depth and pass loss. For a 4 cavity VHF, it is about 1dB pass loss for a 40dB notch, for a 6 cavity, about .5dB loss for a 30dB notch. After you have adjusted enough, you can set them all by eye :)
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> >> One note - if you are starting with a duplexer that was already tuned for a different frequency but the same split (600khz for example), don't play with the loops. They will likely be set fine.
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> >> Have a look at this site if you want to see what the dupes look like inside, or if you want to build a 220MHz duplexer :)
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> >> http://www.irlp.net/duplexer
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> >> Dave Cameron
> >> VE7LTD
> >>
> >> ---
> >> David Cameron - VE7LTD
> >> IRLP System Designer - http://www.irlp.net
> >>
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> >> From: "John \(WB5NFC\)" <wb5nfc@>
> >> Sender: hp8924@yahoogroups.com
> >> Date: Tue, 2 Oct 2012 04:46:08
> >> To: hp8924@yahoogroups.com<hp8924@yahoogroups.com>
> >> Reply-To: hp8924@yahoogroups.com
> >> Subject: Re: [hp8924] 8924C Duplexer Tuning
> >>
> >> Hello Bob,
> >>
> >> I understand your frustration. I'm in much the same situation. I've had my 8924 for a couple of years, but just trying to tune a set of Motorola MSR-2000 UHF cans with it now. The results have not been good. Pass band tuning with a return loss bridge is simple

enough, but I've never been able to set the notch frequency with the monitor. I even invested in the Measurement Innovation RF Tools software hoping to ease my pain and shorten the learning curve. No luck. I had to revert to the old, tried and true use of a an outboard receiver tuned to the notch frequency and use of the HP/Agilent as a signal source to tune for minimum signal. If I'm doing the math right, I was able to tune the notches within expected specifications using this method.
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> >> The author is not using the 8924, but still some good information. You should see a list of similar videos on the right of the page before you hit the play button on this one.Â
> >>
> >> That's not much, but maybe you will find some solace in knowing that another newbie is fighting the same battle....
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> >> Good luck. May the force be with you...
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> >> John / WB5NFC
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> >> To: hp8924@yahoogroups.com
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> >> I have two types of duplexers. My main is a Sinclair Q2330 and a WaCom WP642.
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> >> I'll confess that I get lost translating between the 8920B manual that doesn't appear to have a section on duplexer tuning, and the screens that appear on the 8924C. I do have the POWERON power-up enabled.
> >>
> >> Thanks in advance.
> >>
> >> A newbie
> >>
> >> Bob - AF6D
> >>
> >
> >
> >

>

# 1134. Re: 8924C Duplexer Tuning

Yahoo group: hp8924
Date: 2012-10-03 05:04:26 UTC
From: Bob - AF6D
Topic: 1119  Message: 1134

David,

I have the Q2330e model (6-cavity). When purchased all of the rods were "pushed all the way in for shipping." Which is another way of saying that the idiot cut all of the rods. We had to source INVAR rod and did so at an excellent price. Prior to the replacement of the rods we couldn't get below 151MHz and now we're well into the ham band with excellent rejection and isolation. Although I do have higher loss on TX than I'd like. On receive I an get down below -121dBm - no man's land anyway.

My issue is that I just don't know how to setup the 8924C to begin tuning. I haven't been able to locate a video or written instructions. I need a starting point. For the life of me I cannot find the instructions I had for using the Amtronix SW1200N Return Loss Bridge to tune. I also have a WaCom WP642 6-cavity. Same issue. Setting up the 8924C.

I would be grateful to anyone that can push me in the right direction Not over a cliff, if you don't mind :=)

--- In hp8924@yahoogroups.com, "David Cameron (IRLP)" <dcameron@...> wrote:
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> Unless you have a weird version or something (I have seen some UHF
> versions that you can not remove the harness at the coupling loop), each
> of the cavities is added to the harness with an N connection. Have a
> look at my site where I dismantle the Q2220E duplexer and you can see
> all the various parts:
>
> http://www.irlp.net/duplexer/
>
> The harness is a whole other story. Most VHF Res-Loks you will see from
> the factory have a harness that is center tuned at 161Mhz. You will get
> about 5db deeper notch (per cavity) and slightly less pass loss
> (~0.05dB) if you center the harness around the operating frequency. This
> involves pulling the harness apart and replacing the inter-cavity pieces
> of RG-142 (I use RG-400), resoldering and recrimping. The formulas are
> all on the site above. Note that this is not NEEDED, but it does help a bit.
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> 8920A, not an 8924.
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> I set my frequency for the pass freq, the span at 1.2Mhz (600khz on each
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> Center the pass band around the middle of the screen (highest level),
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> Repeat for the other cavities. Be sure to know what is the high pass,
> and what is the low pass. When switching from tuning the high pass side
> cavities to the low pass side cavities, adjust the center frequency and
> RE-NORMALIZE.
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> For VHF ham band, the typical cavity in a Q2330 duplexer should show
> about 0.4-0.7dB PASS loss, and 25-35dB notch (Q2220E needs to be about
> 1.0-1.3dB loss with 35-45dB notch. If it does not, you may have to
> rotate the loop on the cavity by a few degrees, and retune. This is the
> mastery part of tuning duplexers - With the Res-Lok this is how you
> adjust the tradeoff between insertion loss and isolation.
>
> Once all the cavities are set up right, put on the harness. Set your
> center frequency to the LOW PASS freq (147.20 TX). Take your cables off
> the N Tee and connect them to an N male barrel connector. RE-NORMALIZE.
> Connect the duplex out and attenuator cable to the ANTENNA port, the
> antenna in cable to the LOW PASS equipment port, and put a 50 ohm dummy
> load on the HIGH PASS equipment port.
>
> Now ever so slightly adjust the pass cavities to get the lowest pass
> loss. On a Q2330, it should be about 1.5-2.0dB. On a Q2220E, it will be
> about 2.0-2.5dB. You can temporarily turn off the normalization, and
> switch to a 2db/division setting to get a better view of the pass. Just
> be sure to go back to 10db/div before tuning the notch.
>
> Now change the spectrum analyzer center frequency to the high pass
> frequency, and the reference level to -40. Now adjust the capacitors to
> line up the notches for the deepest notch. You will have to play around
> a lot to get it just perfect, but to be honest it doesn't really matter
> on a Q2330E. The notch depth should be AT LEAST the sum of the notch
> depths of the individual cavities, but likely about 5-10db deeper. Note
> that we did not RE-NORMALIZE when we changed the center frequency. Being
> off by 0.5dB on a notch is not the end of the world :)
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> REPEAT this on the HIGH PASS side, moving the antenna in to the HIGH
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> and the harnessed set, you should have a GOOD look at your harness. Test
> all ports for continuity, and open up the connectors to look for corrosion.
>
> I should make some videos. I have tuned probably 50 Sinclair Res-Lok
> dupes in my days. All without an RLB, and they all work great :)
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> Dave Cameron
> VE7LTD
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> On 02/10/2012 7:34 AM, Bob - AF6D wrote:
> > As far as I know the Res-Lok cannot be tuned cavity by cavity. The harness is one harness. One places a 50 ohm load at the end of the hi or low section and injects through the antenna port. I think :=) Or is that the RLB way ??? < Insert scream here! >
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> >> The Sinclair Q series ResLok duplexers are best tuned cavity by cavity, so get a Female-Male-Female N Tee, and two N to BNC cables.
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> >> The way I learned was by just playing around. Set it up on one cavity, at a span of 20 megs or so, and adjust everything you can on one cavity/loop until you get a full understanding of what each tuning input does. See how the frequency changes with the adjustment of the tuning rod, how the notches (yes there are TWO on each cavity) are adjusted with the capacitor. Loosen the loop and rotate it around a bit and see what the effect is.
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> >> Depending on the application, and the number of cavities, each loop need to be set to give it's fraction of the notch depth and pass loss. For a 4 cavity VHF, it is about 1dB pass loss for a 40dB notch, for a 6 cavity, about .5dB loss for a 30dB notch. After you have adjusted enough, you can set them all by eye :)
> >>
> >> One note - if you are starting with a duplexer that was already tuned for a different frequency but the same split (600khz for example), don't play with the loops. They will likely be set fine.
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> >> Have a look at this site if you want to see what the dupes look like inside, or if you want to build a 220MHz duplexer :)
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> >> Dave Cameron
> >> VE7LTD
> >>
> >> ----------
> >> David Cameron - VE7LTD
> >> IRLP System Designer - http://www.irlp.net
> >>
> >> -----Original Message-----
> >> From: "John \(WB5NFC\)" <wb5nfc@>
> >> Sender: hp8924@yahoogroups.com
> >> Date: Tue, 2 Oct 2012 04:46:08
> >> To: hp8924@yahoogroups.com<hp8924@yahoogroups.com>

> >> Reply-To: hp8924@yahoogroups.com
> >> Subject: Re: [hp8924] 8924C Duplexer Tuning
> >>
> >> Hello Bob,
> >>
> >> I understand your frustration. I'm in much the same situation. I've had my 8924 for a couple of years, but just trying to tune a set of Motorola MSR-2000 UHF cans with it now. The results have not been good. Pass band tuning with a return loss bridge is simple enough, but I've never been able to set the notch frequency with the monitor. I even invested in the Measurement Innovation RF Tools software hoping to ease my pain and shorten the learning curve. No luck. I had to revert to the old, tried and true use of a an outboard receiver tuned to the notch frequency and use of the HP/Agilent as a signal source to tune for minimum signal. If I'm doing the math right, I was able to tune the notches within expected specifications using this method.
> >>
> >>
> >> Here's one of the best videos I found: http://www.youtube.com/watch?v=P1wsG3FIU8w
> >> The author is not using the 8924, but still some good information. You should see a list of similar videos on the right of the page before you hit the play button on this one.Â
> >>
> >> That's not much, but maybe you will find some solace in knowing that another newbie is fighting the same battle....
> >>
> >> Good luck. May the force be with you...
> >>
> >> 73
> >> John / WB5NFC
> >>
> >>
> >> _____
> >> From: Bob - AF6D <bob@>
> >> To: hp8924@yahoogroups.com
> >> Sent: Tuesday, October 2, 2012 12:08 AM
> >> Subject: [hp8924] 8924C Duplexer Tuning
> >>
> >>
> >> Â
> >> I am looking for a YouTube video that will show me step-by-step how to tune a duplexer. I'm just not getting it reading the written word.
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> >> I'd like to learn two ways. 1. I guess the traditional way by generating RF into the cans, and 2. Using an Amtronix 1200SW Return Loss Bridge.
> >>
> >> I have two types of duplexers. My main is a Sinclair Q2330 and a WaCom WP642.
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> >> I'll confess that I get lost translating between the 8920B manual that doesn't appear to have a section on duplexer tuning, and the screens that appear on the 8924C. I do have the POWERON power-up enabled.
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```
> >> Thanks in advance.
> >>
> >> A newbie
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> >> Bob - AF6D
> >>
> >
> >
> >
>
```

# 1135. Re: [hp8924] Re: 8924C Duplexer Tuning

Yahoo group: hp8924
Date: 2012-10-03 07:13:44 UTC
From: Tim
Topic: 1119  Message: 1135

On 3/10/2012 3:04 PM, Bob - AF6D wrote:
>
>
[snip]

> My issue is that I just don't know how to setup the 8924C to begin
> tuning. I haven't been able to locate a video or written instructions.
> I need a starting point. For the life of me I cannot find the
> instructions I had for using the Amtronix SW1200N Return Loss Bridge
> to tune. I also have a WaCom WP642 6-cavity. Same issue. Setting up
> the 8924C.
>

instructions for the Amtronix can be found here....

http://www.amtronix.com/rlb.htm

duplexer tuning with pics here....

http://www.amtronix.com/duplexertuning.htm

and using RF Tools to do same, here....

http://www.amtronix.com/rlbtools.htm

regards

Tim

--
VK2XTT :: QF56if :: BMARC :: WIA :: AMSAT-VK :: AMSAT

# 1136. Re: [hp8924] Re: 8924C Duplexer Tuning

Yahoo group: hp8924
Date: 2012-10-03 14:51:16 UTC
From: David Cameron
Topic: 1119  Message: 1136

Bob, it sounds like you have it tuned just fine. What are you defining as "high loss on TX"? If you put a wattmeter before and after the duplexer on the TX side, what readings are you getting?

You also mention reflected power of 4 watts. 4 watts of how many going in? Also you have not mentioned if you have done any or all of these tests with the antenna port terminated with a good 50ohm dummy load.

I can tell you the setup steps for an HP8920A, but not sure if the 8924C is the same or not.

Dave Cameron
---
David Cameron - VE7LTD
IRLP System Designer - http://www.irlp.net

-----Original Message-----
From: "Bob - AF6D" <bob@af6d.com>
Sender: hp8924@yahoogroups.com
Date: Wed, 03 Oct 2012 05:04:26
To: <hp8924@yahoogroups.com>
Reply-To: hp8924@yahoogroups.com
Subject: [hp8924] Re: 8924C Duplexer Tuning

David,

I have the Q2330e model (6-cavity). When purchased all of the rods were "pushed all the way in for shipping." Which is another way of saying that the idiot cut all of the rods. We had to source INVAR rod and did so at an excellent price. Prior to the replacement of the rods we couldn't get below 151MHz and now we're well into the ham band with excellent rejection and isolation. Although I do have higher loss on TX than I'd like. On receive I an get down below -121dBm - no man's land anyway.

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I would be grateful to anyone that can push me in the right direction Not over a cliff, if you don't mind :=)

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> >> IRLP System Designer - http://www.irlp.net
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> >> From: "John \(WB5NFC\)" <wb5nfc@>
> >> Sender: hp8924@yahoogroups.com
> >> Date: Tue, 2 Oct 2012 04:46:08
> >> To: hp8924@yahoogroups.com<hp8924@yahoogroups.com>
> >> Reply-To: hp8924@yahoogroups.com
> >> Subject: Re: [hp8924] 8924C Duplexer Tuning
> >>
> >> Hello Bob,
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> >
> >
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>

# 1137. Re: 8924C Duplexer Tuning

Yahoo group: hp8924
Date: 2012-10-03 15:32:10 UTC
From: Bob - AF6D
Topic: 1119  Message: 1137

Great questions, David.

I did not tune the duplexer the first time and was not present when it was done. It was tuned and delivered. I need to know how to maintain my hardware.

The 4 watts reflected is of 35 watts. I believe that's 11%? But yes the port was terminated with a Telewave TWL60.

The steps are similar on the 8920A but I cannot tell you how. I am going to review the pages Tim linked to.

Thanks!

--- In hp8924@yahoogroups.com, "David Cameron" <dcameron@...> wrote:
>
> Bob, it sounds like you have it tuned just fine. What are you defining as "high loss on TX"? If you put a wattmeter before and after the duplexer on the TX side, what readings are you getting?
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> Date: Wed, 03 Oct 2012 05:04:26
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> > 1.0-1.3dB loss with 35-45dB notch. If it does not, you may have to
> > rotate the loop on the cavity by a few degrees, and retune. This is the
> > mastery part of tuning duplexers - With the Res-Lok this is how you
> > adjust the tradeoff between insertion loss and isolation.
> >
> > Once all the cavities are set up right, put on the harness. Set your
> > center frequency to the LOW PASS freq (147.20 TX). Take your cables off
> > the N Tee and connect them to an N male barrel connector. RE-NORMALIZE.
> > Connect the duplex out and attenuator cable to the ANTENNA port, the
> > antenna in cable to the LOW PASS equipment port, and put a 50 ohm dummy
> > load on the HIGH PASS equipment port.
> >
> > Now ever so slightly adjust the pass cavities to get the lowest pass
> > loss. On a Q2330, it should be about 1.5-2.0dB. On a Q2220E, it will be
> > about 2.0-2.5dB. You can temporarily turn off the normalization, and
> > switch to a 2db/division setting to get a better view of the pass. Just
> > be sure to go back to 10db/div before tuning the notch.
> >
> > Now change the spectrum analyzer center frequency to the high pass
> > frequency, and the reference level to -40. Now adjust the capacitors to
> > line up the notches for the deepest notch. You will have to play around
> > a lot to get it just perfect, but to be honest it doesn't really matter
> > on a Q2330E. The notch depth should be AT LEAST the sum of the notch
> > depths of the individual cavities, but likely about 5-10db deeper. Note
> > that we did not RE-NORMALIZE when we changed the center frequency. Being
> > off by 0.5dB on a notch is not the end of the world :)
> >
> > REPEAT this on the HIGH PASS side, moving the antenna in to the HIGH
> > PASS equipment port and the dummy load to the LOW PASS.
> >
> > If any major tuning had to be done between the individual cavity tuning
> > and the harnessed set, you should have a GOOD look at your harness. Test
> > all ports for continuity, and open up the connectors to look for corrosion.
> >
> > I should make some videos. I have tuned probably 50 Sinclair Res-Lok
> > dupes in my days. All without an RLB, and they all work great :)
> >
> > Dave Cameron
> > VE7LTD
> >
> > On 02/10/2012 7:34 AM, Bob - AF6D wrote:
> > > As far as I know the Res-Lok cannot be tuned cavity by cavity. The harness is one
harness. One places a 50 ohm load at the end of the hi or low section and injects through
the antenna port. I think :=) Or is that the RLB way ??? < Insert scream here! >
> > >
> > > --- In hp8924@yahoogroups.com, "David Cameron" <dcameron@> wrote:
> > >>
> > >> The one important thing this video does not show is adjustment of the coupling loops
to adjust the depth of the notch/pass. This is not easy to do, and can throw your whole

duplexer out of tune and not able to meet spec if done wrong.
> > >>
> > >> The Sinclair Q series ResLok duplexers are best tuned cavity by cavity, so get a Female-Male-Female N Tee, and two N to BNC cables.
> > >>
> > >> The way I learned was by just playing around. Set it up on one cavity, at a span of 20 megs or so, and adjust everything you can on one cavity/loop until you get a full understanding of what each tuning input does. See how the frequency changes with the adjustment of the tuning rod, how the notches (yes there are TWO on each cavity) are adjusted with the capacitor. Loosen the loop and rotate it around a bit and see what the effect is.
> > >>
> > >> Depending on the application, and the number of cavities, each loop need to be set to give it's fraction of the notch depth and pass loss. For a 4 cavity VHF, it is about 1dB pass loss for a 40dB notch, for a 6 cavity, about .5dB loss for a 30dB notch. After you have adjusted enough, you can set them all by eye :)
> > >>
> > >> One note - if you are starting with a duplexer that was already tuned for a different frequency but the same split (600khz for example), don't play with the loops. They will likely be set fine.
> > >>
> > >> Have a look at this site if you want to see what the dupes look like inside, or if you want to build a 220MHz duplexer :)
> > >>
> > >> http://www.irlp.net/duplexer
> > >>
> > >> Dave Cameron
> > >> VE7LTD
> > >>
> > >> ----------
> > >> David Cameron - VE7LTD
> > >> IRLP System Designer - http://www.irlp.net
> > >>
> > >> -----Original Message-----
> > >> From: "John \(WB5NFC\)" <wb5nfc@>
> > >> Sender: hp8924@yahoogroups.com
> > >> Date: Tue, 2 Oct 2012 04:46:08
> > >> To: hp8924@yahoogroups.com<hp8924@yahoogroups.com>
> > >> Reply-To: hp8924@yahoogroups.com
> > >> Subject: Re: [hp8924] 8924C Duplexer Tuning
> > >>
> > >> Hello Bob,
> > >>
> > >> I understand your frustration. I'm in much the same situation. I've had my 8924 for a couple of years, but just trying to tune a set of Motorola MSR-2000 UHF cans with it now. The results have not been good. Pass band tuning with a return loss bridge is simple enough, but I've never been able to set the notch frequency with the monitor. I even invested in the Measurement Innovation RF Tools software hoping to ease my pain and shorten the learning curve. No luck. I had to revert to the old, tried and true use of a an outboard receiver tuned to the notch frequency and use of the HP/Agilent as a signal source to tune for minimum signal. If I'm doing the math right, I was able to tune the notches

within expected specifications using this method.
> > >>
> > >>
> > >> Here's one of the best videos I found: http://www.youtube.com/watch?v=P1wsG3FIU8w
> > >> The author is not using the 8924, but still some good information. You should see a list of similar videos on the right of the page before you hit the play button on this one.Â
> > >>
> > >> That's not much, but maybe you will find some solace in knowing that another newbie is fighting the same battle....
> > >>
> > >> Good luck. May the force be with you...
> > >>
> > >> 73
> > >> John / WB5NFC
> > >>
> > >>
> > >> _____
> > >> From: Bob - AF6D <bob@>
> > >> To: hp8924@yahoogroups.com
> > >> Sent: Tuesday, October 2, 2012 12:08 AM
> > >> Subject: [hp8924] 8924C Duplexer Tuning
> > >>
> > >>
> > >> Â
> > >> I am looking for a YouTube video that will show me step-by-step how to tune a duplexer. I'm just not getting it reading the written word.
> > >>
> > >> I'd like to learn two ways. 1. I guess the traditional way by generating RF into the cans, and 2. Using an Amtronix 1200SW Return Loss Bridge.
> > >>
> > >> I have two types of duplexers. My main is a Sinclair Q2330 and a WaCom WP642.
> > >>
> > >> I'll confess that I get lost translating between the 8920B manual that doesn't appear to have a section on duplexer tuning, and the screens that appear on the 8924C. I do have the POWERON power-up enabled.
> > >>
> > >> Thanks in advance.
> > >>
> > >> A newbie
> > >>
> > >> Bob - AF6D
> > >>
> > >
> > >
> > >
> >
>

# 1138. RE: [hp8924] Re: 8924C Duplexer Tuning

Yahoo group: hp8924
Date: 2012-10-03 15:45:00 UTC
From: Brian Swann
Topic: 1119  Message: 1138

Bob, You may be able to improve the 4 watts reflected by tuning the pass frequency with the RLB. When you achieve the maximum return loss, that corresponds to the best SWR you can get. Example, return loss of 14 db is about 1.50 to 1 VSWR, about 4% of the incident power (25W forward, 1W reflected for example). Tuning the pass without a RLB can result in a higher SWR / reflected power. Briann1bs
To: hp8924@yahoogroups.com
From: dcameron@...
Date: Wed, 3 Oct 2012 14:51:16 +0000
Subject: Re: [hp8924] Re: 8924C Duplexer Tuning

Bob, it sounds like you have it tuned just fine. What are you defining as "high loss on TX"? If you put a wattmeter before and after the duplexer on the TX side, what readings are you getting?

You also mention reflected power of 4 watts. 4 watts of how many going in? Also you have not mentioned if you have done any or all of these tests with the antenna port terminated with a good 50ohm dummy load.

I can tell you the setup steps for an HP8920A, but not sure if the 8924C is the same or not.

Dave Cameron----------
David Cameron - VE7LTD
IRLP System Designer - http://www.irlp.netFrom: "Bob - AF6D" <bob@...>
Sender: hp8924@yahoogroups.com
Date: Wed, 03 Oct 2012 05:04:26 -0000To: <hp8924@yahoogroups.com>ReplyTo: hp8924@yahoogroups.com
Subject: [hp8924] Re: 8924C Duplexer Tuning

David,

I have the Q2330e model (6-cavity). When purchased all of the rods were "pushed all the way in for shipping." Which is another way of saying that the idiot cut all of the rods. We had to source INVAR rod and did so at an excellent price. Prior to the replacement of the rods we couldn't get below 151MHz and now we're well into the ham band with excellent rejection and isolation. Although I do have higher loss on TX than I'd like. On receive I an get down below -121dBm - no man's land anyway.

My issue is that I just don't know how to setup the 8924C to begin tuning. I haven't been able to locate a video or written instructions. I need a starting point. For the life of me I cannot find the instructions I had for using the Amtronix SW1200N Return Loss Bridge to tune. I also have a WaCom WP642 6-cavity. Same issue. Setting up the 8924C.

I would be grateful to anyone that can push me in the right direction Not over a cliff, if you don't mind :=)

# 1139. EDACS test software

Yahoo group: hp8924
Date: 2012-10-04 01:04:52 UTC
From: mojoehand
Topic: 1139 Message: 1139

I managed to get a 9122D HPIB floppy working on an HP 8920A. As you know, this model uses a non-PCMCIA card, making it difficult to get files on and off the device.

I copied all of the files from the EDACS software ROM card to a DOS floppy and then to a USB thumb drive. The files have been Zipped and uploaded to the Files section. Look for the following file.

"HP 11807A Option 011 Rev B.00.01 (EDACS).zip"

I remember that someone had asked for this software in the past. I'd like to hear if it works for anyone. This software is for the 8920A. I don't know if it will run on later models. It won't run on models that don't have the EDACS, LTR, etc. signalling options (like my E8285A).

The original ROM card was formatted as LIF. Copying the files to a DOS format changed the file names to all uppercase. I renamed them to the original mixed-case under Win7. This was more for looks, as I don't think it will matter when running the software.

Under LIF, the first letter of the file name indicates the type of file. A "p" is a procedure file, an "l" is a library file and a "c" is code (HP BASIC).

Let me know if anyone tries this software.

# 1140. Re: [hp8924] EDACS test software

Yahoo group: hp8924
Date: 2012-10-04 19:20:25 UTC
From: Ralph Mowery
Topic: 1139  Message: 1140

I tried this on an 8924C.  To get it to list the files on the screen I renamed the files by deleating the first leter and using that as an extension as you have at the bottlom of your post.  That is deleting the p and using .prc,  l to .lib and c to .pgm

The 8924C loads the program but gets an error at line 950.  I do not know enough about HP Basic to under stand what the line means when I loaded it to Wordpad on the computer, but it seems to be checking for something.  My guess it is either a HP modle number or maybe there is a place where it searches for a certain option.

My 8924C runs the RF tools that someone posted here a while back.  It will not run a program labled NA_FM that was included with the RF Tools for a similar reason.  I bet the program will run on the correct machines.

--- On Wed, 10/3/12, mojoehand <mojoehand@...> wrote:

From: mojoehand <mojoehand@...>
Subject: [hp8924] EDACS test software
To: hp8924@yahoogroups.com
Date: Wednesday, October 3, 2012, 9:04 PM

I managed to get a 9122D HPIB floppy working on an HP 8920A. As you know, this model uses a non-PCMCIA card, making it difficult to get files on and off the device.

I copied all of the files from the EDACS software ROM card to a DOS floppy and then to a USB thumb drive. The files have been Zipped and uploaded to the Files section. Look for the following file.

"HP 11807A Option 011 Rev B.00.01 (EDACS).zip"

I remember that someone had asked for this software in the past. I'd like to hear if it works for anyone. This software is for the 8920A. I don't know if it will run on later models. It won't run on models that don't have the EDACS, LTR, etc. signalling options (like my E8285A).

The original ROM card was formatted as LIF. Copying the files to a DOS format changed the file names to all uppercase. I renamed them to the original mixed-case under Win7. This was more for looks, as I don't think it will matter when running the software.

Under LIF, the first letter of the file name indicates the type of file. A "p" is a procedure file, an "l" is a library file and a "c" is code (HP BASIC).

Let me know if anyone tries this software.

# 1141. Re: EDACS test software

Yahoo group: hp8924
Date: 2012-10-05 01:01:24 UTC
From: mojoehand
Topic: 1139  Message: 1141

I just looked it up and the 8924C should have the EDACS signalling built in, so that isn't the issue.

Looking at line 950, it seems to be parsing what filters are installed (I think). This is what the EDACS software manual says:

"HP 8920A Option 010: 400 Hz High-Pass Filter (HPF) (for tests 04-09)"

I would think that a missing option shouldn't crash the program. However, if I remember, running the FM tests also stopped on something similar. It may not be a missing option, but how the program interogates the hardware, looking for those options. In other words, the 8920A probably reacts differently to the program than later models.

When I have nothing else to do (yeah, right), I want to try debugging the FM tools to see if I can get it running on my E8285A. If I figure that out, it may be something similar is required for the EDACS software.

BTW, your renaming of the files and adding extensions is probably the correct thing to do on DOS. I see that the RF tools are named similarly.

If anyone wants to try the files on a LIF volume, I found some LIF Utilities on the HP Museum site, under the Vectra section (The Vectra was an early HP PC compatible). There is also a copy of Instrument BASIC for Windows 3.0. It might be interesting to see if that even runs on my Win7 box.

--- In hp8924@yahoogroups.com, Ralph Mowery <ku4pt@...> wrote:
>
> I tried this on an 8924C.  To get it to list the files on the screen I renamed the files by deleating the first leter and using that as an extension as you have at the bottlom of your post.  That is deleting the p and using .prc,  l to .lib and c to .pgm
>
> The 8924C loads the program but gets an error at line 950.  I do not know enough about HP Basic to under stand what the line means when I loaded it to Wordpad on the computer, but it seems to be checking for something.  My guess it is either a HP modle number or maybe there is a place where it searches for a certain option.
>
> My 8924C runs the RF tools that someone posted here a while back.  It will not run a program labled NA_FM that was included with the RF Tools for a similar reason.  I bet the program will run on the correct machines.
>
>
> --- On Wed, 10/3/12, mojoehand <mojoehand@...> wrote:
>
>
> From: mojoehand <mojoehand@...>
> Subject: [hp8924] EDACS test software
> To: hp8924@yahoogroups.com

> Date: Wednesday, October 3, 2012, 9:04 PM
>
>
> I managed to get a 9122D HPIB floppy working on an HP 8920A. As you know, this model uses a non-PCMCIA card, making it difficult to get files on and off the device.
>
> I copied all of the files from the EDACS software ROM card to a DOS floppy and then to a USB thumb drive. The files have been Zipped and uploaded to the Files section. Look for the following file.
>
> "HP 11807A Option 011 Rev B.00.01 (EDACS).zip"
>
> I remember that someone had asked for this software in the past. I'd like to hear if it works for anyone. This software is for the 8920A. I don't know if it will run on later models. It won't run on models that don't have the EDACS, LTR, etc. signalling options (like my E8285A).
>
> The original ROM card was formatted as LIF. Copying the files to a DOS format changed the file names to all uppercase. I renamed them to the original mixed-case under Win7. This was more for looks, as I don't think it will matter when running the software.
>
> Under LIF, the first letter of the file name indicates the type of file. A "p" is a procedure file, an "l" is a library file and a "c" is code (HP BASIC).
>
> Let me know if anyone tries this software.
>

# 1142. Re: EDACS test software

Yahoo group: hp8924
Date: 2012-10-07 02:37:20 UTC
From: mojoehand
Topic: 1139  Message: 1142

Ralph,

I just uploaded another file, "EDACS2.zip". Give this a try.

This time, I copied the files from the LIF formatted ROM card to a LIF floppy. Then, using the HP LIF Utilities, I copied everything to DOS. I see that the program file got converted to readable ASCII under DOS. Last, I renamed the files, adding the extensions.

If this still doesn't work, then the program will definitely need some modifications for later model service monitors.

It would be very interesting to hear from someone who has tried this on an 8920.

--- In hp8924@yahoogroups.com, Ralph Mowery <ku4pt@...> wrote:
>
> I tried this on an 8924C.  To get it to list the files on the screen I renamed the files by deleating the first leter and using that as an extension as you have at the bottlom of your post.  That is deleting the p and using .prc,  l to .lib and c to .pgm
>
> The 8924C loads the program but gets an error at line 950.  I do not know enough about HP Basic to under stand what the line means when I loaded it to Wordpad on the computer, but it seems to be checking for something.  My guess it is either a HP modle number or maybe there is a place where it searches for a certain option.
>
> My 8924C runs the RF tools that someone posted here a while back.  It will not run a program labled NA_FM that was included with the RF Tools for a similar reason.  I bet the program will run on the correct machines.
>
>
> --- On Wed, 10/3/12, mojoehand <mojoehand@...> wrote:
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>
> From: mojoehand <mojoehand@...>
> Subject: [hp8924] EDACS test software
> To: hp8924@yahoogroups.com
> Date: Wednesday, October 3, 2012, 9:04 PM
>
>
> I managed to get a 9122D HPIB floppy working on an HP 8920A. As you know, this model uses a non-PCMCIA card, making it difficult to get files on and off the device.
>
> I copied all of the files from the EDACS software ROM card to a DOS floppy and then to a USB thumb drive. The files have been Zipped and uploaded to the Files section. Look for the following file.
>
> "HP 11807A Option 011 Rev B.00.01 (EDACS).zip"

>
> I remember that someone had asked for this software in the past. I'd like to hear if it works for anyone. This software is for the 8920A. I don't know if it will run on later models. It won't run on models that don't have the EDACS, LTR, etc. signalling options (like my E8285A).
>
> The original ROM card was formatted as LIF. Copying the files to a DOS format changed the file names to all uppercase. I renamed them to the original mixed-case under Win7. This was more for looks, as I don't think it will matter when running the software.
>
> Under LIF, the first letter of the file name indicates the type of file. A "p" is a procedure file, an "l" is a library file and a "c" is code (HP BASIC).
>
> Let me know if anyone tries this software.
>

# 1143. Re: [hp8924] Re: EDACS test software

Yahoo group: hp8924
Date: 2012-10-09 17:13:42 UTC
From: Ralph Mowery
Topic: 1139  Message: 1143

I finally found some time to try the EDACS2 file.  When I loaded it into my 8924C it would give several file names, but when I clicked on then, none of the files would load. The screen said something like 'file name undefined'.  The screen did show the EDACS when I put the memory card in and first started up the listings for the card.

I think the error that I got on line 950 in the first time I tried it by just renaming the files to the correct extention for the 8924C was the program looking for certain hardwear options on the test set.  The 8924C has most of the options of the 8920 already standard where the 8920 does not have most of the options standard so it needs to check for them.

As I said, I know a small ammount about BASIC, but nothing about the HP IBASIC.  I am sure they work the same, just some differant commands to work with the HP instruments.
I bet it has been 20 years ago that I last saw anything in BASIC.

Ralph

--- On Sat, 10/6/12, mojoehand <mojoehand@...> wrote:

From: mojoehand <mojoehand@...>
Subject: [hp8924] Re: EDACS test software
To: hp8924@yahoogroups.com
Date: Saturday, October 6, 2012, 10:37 PM

Ralph,

I just uploaded another file, "EDACS2.zip". Give this a try.

This time, I copied the files from the LIF formatted ROM card to a LIF floppy. Then, using the HP LIF Utilities, I copied everything to DOS. I see that the program file got converted to readable ASCII under DOS. Last, I renamed the files, adding the extensions.

If this still doesn't work, then the program will definitely need some modifications for later model service monitors.

It would be very interesting to hear from someone who has tried this on an 8920.

# 1144. Re: 8924C Duplexer Tuning

Yahoo group: hp8924
Date: 2012-10-12 16:10:57 UTC
From: Bob - AF6D
Topic: 1119  Message: 1144

Thanks for the tip, Brian. I know that working with the RLB is the4 better way to go.

--- In hp8924@yahoogroups.com, Brian Swann <n1bs@...> wrote:
>
> Bob, You may be able to improve the 4 watts reflected by tuning the pass frequency with the RLB. When you achieve the maximum return loss, that corresponds to the best SWR you can get. Example, return loss of 14 db is about 1.50 to 1 VSWR, about 4% of the incident power (25W forward, 1W reflected for example). Tuning the pass without a RLB can result in a higher SWR / reflected power. Briann1bs
> To: hp8924@yahoogroups.com
> From: dcameron@...
> Date: Wed, 3 Oct 2012 14:51:16 +0000
> Subject: Re: [hp8924] Re: 8924C Duplexer Tuning
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> Bob, it sounds like you have it tuned just fine. What are you defining as "high loss on TX"? If you put a wattmeter before and after the duplexer on the TX side, what readings are you getting?
>
> You also mention reflected power of 4 watts. 4 watts of how many going in? Also you have not mentioned if you have done any or all of these tests with the antenna port terminated with a good 50ohm dummy load.
>
> I can tell you the setup steps for an HP8920A, but not sure if the 8924C is the same or not.
>
> Dave Cameron----------
> David Cameron - VE7LTD
> IRLP System Designer - http://www.irlp.netFrom: "Bob - AF6D" <bob@...>
> Sender: hp8924@yahoogroups.com
> Date: Wed, 03 Oct 2012 05:04:26 -0000To: <hp8924@yahoogroups.com>ReplyTo: hp8924@yahoogroups.com
> Subject: [hp8924] Re: 8924C Duplexer Tuning
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> David,
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> I have the Q2330e model (6-cavity). When purchased all of the rods were "pushed all the way in for shipping." Which is another way of saying that the idiot cut all of the rods. We had to source INVAR rod and did so at an excellent price. Prior to the replacement of the rods we couldn't get below 151MHz and now we're well into the ham band with excellent rejection and isolation. Although I do have higher loss on TX than I'd like. On receive I an get down below -121dBm - no man's land anyway.
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>
> My issue is that I just don't know how to setup the 8924C to begin tuning. I haven't been able to locate a video or written instructions. I need a starting point. For the life of me I cannot find the instructions I had for using the Amtronix SW1200N Return Loss Bridge to tune. I also have a WaCom WP642 6-cavity. Same issue. Setting up the 8924C.

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>
> I would be grateful to anyone that can push me in the right direction Not over a cliff, if you don't mind :=)
>

# 1145. Generatong PL and Test Tone

Yahoo group: hp8924
Date: 2012-10-12 16:11:42 UTC
From: Bob - AF6D
Topic: 1145  Message: 1145

Could someone help me with setup to generate a PL tome while generating a 1KHz RF tone? I need to test desense.

# 1146. Re: [hp8924] Generatong PL and Test Tone

Yahoo group: hp8924
Date: 2012-10-12 16:13:42 UTC
From: David Cameron (IRLP)
Topic: 1145  Message: 1146

Check out this previous post:

http://groups.yahoo.com/group/hp8924/message/906

On 12/10/2012 9:11 AM, Bob - AF6D wrote:
> Could someone help me with setup to generate a PL tome while generating a 1KHz RF tone? I need to test desense.
>
>

# 1147. RE: [hp8924] Generatong PL and Test Tone

Yahoo group: hp8924
Date: 2012-10-12 16:40:53 UTC
From: Jim Broome
Topic: 1145  Message: 1147

Use AF gen 2 and enter the tone with a decimal first. Ex 100.0 hertz would be .10000
You set the output to FM and set level to whatever you want

-----Original Message-----
From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Bob - AF6D
Sent: Friday, October 12, 2012 12:12 PM
To: hp8924@yahoogroups.com
Subject: [hp8924] Generatong PL and Test Tone

Could someone help me with setup to generate a PL tome while generating a 1KHz RF tone? I need to test desense.

---

Yahoo! Groups Links

# 1148. Re: Duplex mode

Yahoo group: hp8924
Date: 2012-10-12 17:03:33 UTC
From: Bob - AF6D
Topic: 730  Message: 1148

Awesome answer! Thank you!!!

--- In hp8924@yahoogroups.com, "willcoele@..." <willcoele@...> wrote:
>
>
>
> Press SHIFT then AF/ANL to enter the encoder screen. Select Func Gen and setup Generator 2 for a sinewave and your PL frequnecy. Select AFGen2 To FM and set the deviation to .5 or .6 KHz.
>
> When the RF Generator output is connected to the Duplex out, this will setup Generator 2 for a PL tone. In the Duplex screen you can setup AFGen 1 for any frequency or deviation with out affecting the PL tone.
>
>
> --- In hp8924@yahoogroups.com, Tim <tim@> wrote:
> >
> > Hi Folks,
> >
> > I'm trying to setup the duplex mode so I can check out a
> > repeater - setting levels, etc.
> >
> > However, on the duplex screen, I don't see any provision
> > for putting the second audio generator on the signal.
> >
> > (I need both a sub audible 'PL' tone, and the 1kHz tone).
> >
> > I figure there's some way to do it, just not sure how.
> >
> > Thanks,
> >
> > Tim
> >
>

# 1149. Re: Generatong PL and Test Tone

Yahoo group: hp8924
Date: 2012-10-12 17:37:25 UTC
From: Mark Young
Topic: 1145  Message: 1149

Indeed use AF gen2, but ...

Enter 100 and hit the HZ button lower right corner of number pad
for other stuff enter the ghz, mhz, khz keys after the number/digit entry.

Mark

--- In hp8924@yahoogroups.com, "Jim Broome" <jim@...> wrote:
>
> Use AF gen 2 and enter the tone with a decimal first. Ex 100.0 hertz would
> be .10000
> You set the output to FM and set level to whatever you want
>
> -----Original Message-----
> From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of
> Bob - AF6D
> Sent: Friday, October 12, 2012 12:12 PM
> To: hp8924@yahoogroups.com
> Subject: [hp8924] Generatong PL and Test Tone
>
> Could someone help me with setup to generate a PL tome while generating a
> 1KHz RF tone? I need to test desense.
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>

# 1150. Re: Generatong PL and Test Tone

Yahoo group: hp8924
Date: 2012-10-12 19:37:15 UTC
From: Bob - AF6D
Topic: 1145  Message: 1150

I was able to generate the PL tone and an RF carrier but no 1KHz tone.

I hit something wrong and the unit reverted to CDMA. How can I return to POWERON without power cycling?

I am testing for desense with a UHF T with the center pin cut shorter. I assume that rather than duplex out I am using the main RF Out because it can handle 100 watts? Duplex can only handle 200mW.

You guys are great!

--- In hp8924@yahoogroups.com, "David Cameron (IRLP)" <dcameron@...> wrote:
>
> Check out this previous post:
>
> http://groups.yahoo.com/group/hp8924/message/906
>
> On 12/10/2012 9:11 AM, Bob - AF6D wrote:
> > Could someone help me with setup to generate a PL tome while generating a 1KHz RF tone? I need to test desense.
> >
> >
>

# 1151. Re: Generatong PL and Test Tone

Yahoo group: hp8924
Date: 2012-10-12 21:33:36 UTC
From: Bob - AF6D
Topic: 1145  Message: 1151

I got it to work the second time and after rebooting. I rebooted because I ended up in CDMA mode and did not know how to return to POWERON mode.

At any rate I found this one step simpler. Just by going to the RF Generator screen I could enter AFreq1 and then AFreq2 for the PL tone. Using a small mobile mag mount antenna I was able to transmit enough signal to open squelch. Later today I'll make an ISO-Tee and then attempt to measure desense with the transmitter on.

--- In hp8924@yahoogroups.com, "Bob - AF6D" <bob@...> wrote:
>
> I was able to generate the PL tone and an RF carrier but no 1KHz tone.
>
> I hit something wrong and the unit reverted to CDMA. How can I return to POWERON without power cycling?
>
> I am testing for desense with a UHF T with the center pin cut shorter. I assume that rather than duplex out I am using the main RF Out because it can handle 100 watts? Duplex can only handle 200mW.
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> You guys are great!
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> --- In hp8924@yahoogroups.com, "David Cameron (IRLP)" <dcameron@> wrote:
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> > > Could someone help me with setup to generate a PL tome while generating a 1KHz RF tone? I need to test desense.
> > >
> > >
> >
>

# 1152. Need quick reality check on "Normalize" function

Yahoo group: hp8924
Date: 2012-10-14 13:11:02 UTC
From: abrigno1
Topic: 1152  Message: 1152

I thought I understood this but have become confused. I haven't used this in several months and when I went to it last night I got thoroughtly confused agian. Need quick explanation of how it works.

What I thought I understood was to go to the Track Gen and set up to sweep a DUT. Then go to the Aux [Normalize] screen and hook up all the cables etc without the DUT and then hit "Save B".

Then go back and hook up DUT and and hit select A only. Then hit Select A-B and reading that would appear would be difference.

Is this the correct sequence???

# 1153. Re: [hp8924] Need quick reality check on "Normalize" function

Yahoo group: hp8924
Date: 2012-10-14 13:40:09 UTC
From: Brian Swann
Topic: 1152  Message: 1153

I think you have steps 1 and 2 reversed. "A only" first, bypass your DUT, "save B", then A-B

Brian
n1bs

abrigno1 <abrigno@...> wrote:

I thought I understood this but have become confused. I haven't used this in several months and when I went to it last night I got thoroughtly confused agian. Need quick explanation of how it works.

What I thought I understood was to go to the Track Gen and set up to sweep a DUT. Then go to the Aux [Normalize] screen and hook up all the cables etc without the DUT and then hit "Save B".

Then go back and hook up DUT and and hit select A only. Then hit Select A-B and reading that would appear would be difference.

Is this the correct sequence???

# 1154. Re: [hp8924] Need quick reality check on "Normalize" function

Yahoo group: hp8924
Date: 2012-10-14 18:20:58 UTC
From: Ralph Mowery
Topic: 1152  Message: 1154

You set everything up the way you want, except for the DUT.  This should be done with the A only hilighted.  Then you hit Save B.  This zeros out everything to this point. Hook up the DUT. Then you hit Select A-B.  Now you are ready to see what the DUT is.

 If you change anything other than the DUT, you will have to go back to the A only, make the changes, and do the A-B. Then hook the DUT back up.

--- On Sun, 10/14/12, abrigno1 <abrigno@...> wrote:

From: abrigno1 <abrigno@...>
Subject: [hp8924] Need quick reality check on "Normalize" function
To: hp8924@yahoogroups.com
Date: Sunday, October 14, 2012, 9:11 AM

I thought I understood this but have become confused. I haven't used this in several months and when I went to it last night I got thoroughtly confused agian. Need quick explanation of how it works.

What I thought I understood was to go to the Track Gen and set up to sweep a DUT. Then go to the Aux [Normalize] screen and hook up all the cables etc without the DUT and then hit "Save B".

Then go back and hook up DUT and and hit select A only. Then hit Select A-B and reading that would appear would be difference.

Is this the correct sequence???

# 1155. Measure signal levels in dbm?

Yahoo group: hp8924
Date: 2012-10-16 17:57:01 UTC
From: jistabout
Topic: 1155  Message: 1155

Hi everyone!

Can't figure out how to do this.....

If I input a signal of, say, -25db (or other low level) into the antenna port on my 8924c, how can I directly measure the level of said signal on the 8924c?

Seems that I can set the built-in AC voltmeter to read signal levels at the antenna port, but the readings change with the different demodulators and also seem to be inaccurate so perhaps I'm doing something wrong.

Thoughts appreciated :).

- Darrell/KA7BTV

# 1156. Re: Measure signal levels in dbm?

Yahoo group: hp8924
Date: 2012-10-16 20:09:02 UTC
From: jistabout
Topic: 1155  Message: 1156

In other words, I need to measure low-level RF voltages without having to use an external meter :).

- Darrell/KA7BTV

# 1157. Re: [hp8924] Measure signal levels in dbm?

Yahoo group: hp8924
Date: 2012-10-16 20:44:48 UTC
From: Ralph Mowery
Topic: 1155  Message: 1157

The first thing that comes to my mind is to use the spectrum analizer function.  Turn off the tracking generaor or set it very low.  Then move the marker to the desired frequency and read the ammount of db on the right side of the screen about 1/3 the way from the top.

--- On Tue, 10/16/12, jistabout <darrell@...> wrote:

From: jistabout <darrell@...>
Subject: [hp8924] Measure signal levels in dbm?
To: hp8924@...m
Date: Tuesday, October 16, 2012, 1:57 PM

Hi everyone!

Can't figure out how to do this.....

If I input a signal of, say, -25db (or other low level) into the antenna port on my 8924c, how can I directly measure the level of said signal on the 8924c?

Seems that I can set the built-in AC voltmeter to read signal levels at the antenna port, but the readings change with the different demodulators and also seem to be inaccurate so perhaps I'm doing something wrong.

Thoughts appreciated :).

- Darrell/KA7BTV

# 1158. Duplexer Tuning Revisited

Yahoo group: hp8924
Date: 2012-10-17 15:55:01 UTC
From: Bob - AF6D
Topic: 1158  Message: 1158

Humbly suggested, I am not a dummy and I am not stupid. But I am having a heck of a time. I cannot find a manual, video or otherwise that shows actual setup of an 8924c to use a SW1200N Return Loss Bridge to measure my Res-Lok Q2330. I have a desense issue and it has been suggested that although I was told that my duplexer was tuned to 111dB notch it is acting more like 85dB. I cannot verify one way or another until I get past this learning curve. I have ann excellent Angle Linear 2 cavity bandpass and it comes with a 17dB preamp.

The duplexer came from eBay. The seller lied about it and stated that it covered 136-174MHz. Not knowing the difference I got it cheap, only to learn that the rods were pushed all the way down "for shipping." We couldn't get it to the target of 147.705/105. We sourced INVAR and made new rods. Internally my associate fabricated proper plunger mounting and reported 111dB. He cleaned up the Q2330 and all seemed OK except on weak signals. The harness was not changed and the duplexer had been tuned for government stuff up at around 170MHz.

I have looked at the 8920B manual at http://www.manteoelectronics.com/Application_Handbook.pdf and do not see duplexer tuning. Call me names, call me Suzy; call me late for dinner. But is there a manual somewhere for dummies like me?

Frustrated and humble,

Bob

# 1159. Re: [hp8924] Duplexer Tuning Revisited

Yahoo group: hp8924
Date: 2012-10-17 16:01:57 UTC
From: mwbesemer@cox.net
Topic: 1158  Message: 1159

Am I missing something? A Q2330 is only spec'ed at -85dB, isn't it?

<http://www.repeater-builder.com/sinclair/q2330e-duplexer-specs.pdf>

Mike
WM4B

---- Bob - AF6D <bob@...> wrote:
> Humbly suggested, I am not a dummy and I am not stupid. But I am having a heck of a time. I cannot find a manual, video or otherwise that shows actual setup of an 8924c to use a SW1200N Return Loss Bridge to measure my Res-Lok Q2330. I have a desense issue and it has been suggested that although I was told that my duplexer was tuned to 111dB notch it is acting more like 85dB. I cannot verify one way or another until I get past this learning curve. I have ann excellent Angle Linear 2 cavity bandpass and it comes with a 17dB preamp.
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>
> Frustrated and humble,
>
> Bob
>

# 1160. Re: Duplexer Tuning Revisited

Yahoo group: hp8924
Date: 2012-10-17 16:16:43 UTC
From: Bob - AF6D
Topic: 1158  Message: 1160

Actually, yes and no. It appears that the max signal out of the HP in "DUPLEX" mode is -21 db. So when looking at the notch depth, the spectrum analyzer references it's scale from 0 db. So if we take -21 db reference point and add 90 db of duplexer notch, the spectrum analyzer will show the notch at -111 db on it's screen.

In reverse the -111 db spectrum analyzer result minus the -21 db starting point gives you 90 db of duplexer notch. Exactly what I should have out of that duplexer.

So we're both correct :=) I've read that with the proper harness one can get that extra 5dB. I didn't change it but it may have been changed by a prior owner. I don't know. :=(

I need a nap. I should have bought a new duplexer pretuned and a simpler service monitor. One with training wheels. I feel so incapable right now.

--- In hp8924@yahoogroups.com, <mwbesemer@...> wrote:
>
> Am I missing something? A Q2330 is only spec'ed at -85dB, isn't it?
>
> <http://www.repeater-builder.com/sinclair/q2330e-duplexer-specs.pdf>
>
> Mike
> WM4B
>
> ---- Bob - AF6D <bob@...> wrote:
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> >
> > Frustrated and humble,
> >

> > Bob
> >
>

# 1161. Re: [hp8924] Re: Duplexer Tuning Revisited

Yahoo group: hp8924
Date: 2012-10-17 16:32:49 UTC
From: mwbesemer@cox.net
Topic: 1158  Message: 1161

Working from memory (something akin to using a camera without any film) but:

1) I think you should get more than -21 out of the Sig Gen in Duplex and
2) You don't need to be in duplex mode

Go from RF Out to Antenna In, set the Sig Gen for some value (-20 dB for example) at your frequency of interest. Turn off any modulation. Go to the Spec An and you should see a spectrum at the same level (-20 dB) that you selected. At some point near 0 dB, it'll start to fall off... but not at -21 dB. (Don't forget to account for cable loss... I use short runs of REAL RG-214 about 18" long).

If the cans are rated at -85 dB, I can see you getting 90 dB out of them pretty realistically, although I've never worked with these particular units. BUT, it's darn hard, if not impossible, to see -90 dB of isolation. I can't recall the specs for the -8924, but I belive that at 90 dB you're approaching the limits of the instruments dynamic range.

I have often used a receiver ot verify the depth of my notches. Do a SINAD measurement at the frequency of interest (notch frequency), then insert the duplexers into the line and repeat the measurement. The difference between the two measurements will be your notch depth (with the limfac being your abilty to measure SINAD accurately), assuming your signal generator is accurately putting out what it says it is.

How much isolation does CommShop tell you you need?

Mike
WM4B

---- Bob - AF6D <bob@...> wrote:
> Actually, yes and no. It appears that the max signal out of the HP in "DUPLEX" mode is -21 db. So when looking at the notch depth, the spectrum analyzer references it's scale from 0 db. So if we take -21 db reference point and add 90 db of duplexer notch, the spectrum analyzer will show the notch at -111 db on it's screen.
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> In reverse the -111 db spectrum analyzer result minus the -21 db starting point gives you 90 db of duplexer notch. Exactly what I should have out of that duplexer.
>
> So we're both correct :=) I've read that with the proper harness one can get that extra 5dB. I didn't change it but it may have been changed by a prior owner. I don't know. :=(
>
> I need a nap. I should have bought a new duplexer pretuned and a simpler service monitor. One with training wheels. I feel so incapable right now.
>
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> > >
> > > Frustrated and humble,
> > >
> > > Bob
> > >
> >
>
>

# 1162. Re: [hp8924] Re: Duplexer Tuning Revisited

Yahoo group: hp8924
Date: 2012-10-17 16:33:02 UTC
From: mwbesemer@cox.net
Topic: 1158  Message: 1162

Working from memory (something akin to using a camera without any film) but:

1) I think you should get more than -21 out of the Sig Gen in Duplex and
2) You don't need to be in duplex mode

Go from RF Out to Antenna In, set the Sig Gen for some value (-20 dB for example) at your frequency of interest. Turn off any modulation. Go to the Spec An and you should see a spectrum at the same level (-20 dB) that you selected. At some point near 0 dB, it'll start to fall off... but not at -21 dB. (Don't forget to account for cable loss... I use short runs of REAL RG-214 about 18" long).

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How much isolation does CommShop tell you you need?

Mike
WM4B

---- Bob - AF6D <bob@...> wrote:
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> I need a nap. I should have bought a new duplexer pretuned and a simpler service monitor. One with training wheels. I feel so incapable right now.
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> > Mike
> > WM4B
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> > >
> > > Frustrated and humble,
> > >
> > > Bob
> > >
> >
>
>

# 1163. Re: Duplexer Tuning Revisited

Yahoo group: hp8924
Date: 2012-10-17 16:49:39 UTC
From: Bob - AF6D
Topic: 1158  Message: 1163

I did not reach that conclusion. Another Elmer did so I cannot take credit for being that smart.

At least you still have a memory LOL! I lost mine a long time ago. I've been living out of a children's cancer hospital with my daughter and trying to learn how to build an effective repeater at the same time. The vault is in place but needs to AC lines run underground along with the hard line in PVC. The trenches are dug. The antenna is mounted 85 feet up, a DB224e using Andrew's /2" hard line. But here at the house on a test antenna with LMR-400 and close proximity we suddenly have desense that we're trying to track down. I am going to replace the LMR with some 1/2" that I have and try again. But it appears that the Angle Linear 17dB preamp may be too much.

Using your instructions below will that show me the notch of the duplexer? I'd like to be in tune mode. I know that I have .23dB loss currently and that is actually OK. Our amp won't run so hot. I have not run a SINAD test but the squelch with PL opens at -121dBm. The receiver is tested at .18uV.

I'll follow your advice and see what I get. I am moldable. Just tell me how to learn this darn thing.

My humble thanks.

--- In hp8924@yahoogroups.com, <mwbesemer@...> wrote:
>
> Working from memory (something akin to using a camera without any film) but:
>
> 1) I think you should get more than -21 out of the Sig Gen in Duplex and
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> > > <http://www.repeater-builder.com/sinclair/q2330e-duplexer-specs.pdf>
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> > > > I have looked at the 8920B manual at http://www.manteoelectronics.com/Application_Handbook.pdf and do not see duplexer tuning. Call me names, call me Suzy; call me late for dinner. But is there a manual somewhere for dummies like me?
> > > >

> > > > Frustrated and humble,
> > > >
> > > > Bob
> > > >
> > >
> >
> >
>

# 1164. Re: [hp8924] Re: Duplexer Tuning Revisited

Yahoo group: hp8924
Date: 2012-10-17 20:51:10 UTC
From: Rix Seacord
Topic: 1158  Message: 1164

Bob
Just some food for thought.
Did you look at the Amtronix website? I got some really good hints for the 8924 from them.
We also have a preamp on our receivers. For a multitude of reasons, we have to put in atten pads to keep the receiver from overloading however.
Sound familiar???
Are you sure your desense is not being caused by your feedline? Most recommend only using silver plated dual braid shielded coax if using the feedline for both xmit and rcve.
And last but not least, you are only a dummy if you don't ask and you are a dummy for calling the other guy the same.
As you learn the 8924 you will find it to be one h*** of a box.
Good luck.
Rix K2AVP
On 10/17/2012 12:49 PM, Bob - AF6D wrote:
>
> I did not reach that conclusion. Another Elmer did so I cannot take
> credit for being that smart.
>
> At least you still have a memory LOL! I lost mine a long time ago.
> I've been living out of a children's cancer hospital with my daughter
> and trying to learn how to build an effective repeater at the same
> time. The vault is in place but needs to AC lines run underground
> along with the hard line in PVC. The trenches are dug. The antenna is
> mounted 85 feet up, a DB224e using Andrew's /2" hard line. But here at
> the house on a test antenna with LMR-400 and close proximity we
> suddenly have desense that we're trying to track down. I am going to
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> duplexer? I'd like to be in tune mode. I know that I have .23dB loss
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> not run a SINAD test but the squelch with PL opens at -121dBm. The
> receiver is tested at .18uV.
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> I'll follow your advice and see what I get. I am moldable. Just tell
> me how to learn this darn thing.
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> My humble thanks.
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> --- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>,
> <mwbesemer@...> wrote:
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> > Working from memory (something akin to using a camera without any
> film) but:
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> > 1) I think you should get more than -21 out of the Sig Gen in Duplex
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> > 2) You don't need to be in duplex mode
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> > Go from RF Out to Antenna In, set the Sig Gen for some value (-20 dB
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> Go to the Spec An and you should see a spectrum at the same level (-20
> dB) that you selected. At some point near 0 dB, it'll start to fall
> off... but not at -21 dB. (Don't forget to account for cable loss... I
> use short runs of REAL RG-214 about 18" long).
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> > If the cans are rated at -85 dB, I can see you getting 90 dB out of
> them pretty realistically, although I've never worked with these
> particular units. BUT, it's darn hard, if not impossible, to see -90
> dB of isolation. I can't recall the specs for the -8924, but I belive
> that at 90 dB you're approaching the limits of the instruments dynamic
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> > I have often used a receiver ot verify the depth of my notches. Do a
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> the limfac being your abilty to measure SINAD accurately), assuming
> your signal generator is accurately putting out what it says it is.
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> > How much isolation does CommShop tell you you need?
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>

# 1165. Re: Duplexer Tuning Revisited

Yahoo group: hp8924
Date: 2012-10-17 21:57:43 UTC
From: Bob - AF6D
Topic: 1158  Message: 1165

I don't mind asking questions but in some groups it might be frowned on. Rick has some tutorials and has been very helpful in the past. But I cannot find one that matches "Tuning a Duplexer with a SW1200N Return Loss Bridge and a 8924C". His tutorial is for an IFR and I am so green that I cannot convert in my head. But I am trying.

I think that we've narrowed down the desense to signal overload.

--- In hp8924@yahoogroups.com, Rix Seacord <eseacord@...> wrote:
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> Bob
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> Are you sure your desense is not being caused by your feedline? Most
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> > I did not reach that conclusion. Another Elmer did so I cannot take
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> > along with the hard line in PVC. The trenches are dug. The antenna is
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# 1166. Re: [hp8924] Re: Duplexer Tuning Revisited

Yahoo group: hp8924
Date: 2012-10-17 22:59:38 UTC
From: Ralph Mowery
Topic: 1158  Message: 1166

Look at this vidio.  It uses an E8285 and the screens are almost the same as the 8924C.

http://www.youtube.com/watch?v=P1wsG3FIU8w&feature=relmfu

 Here is for a single cavity

http://www.youtube.com/watch?v=bl5Nyn85SFs&feature=relmfu

You tune the duplexer pass frequency with the return loss bridge.  Then you take the RLB out of line and tune the duplexer for the rejection notches.

It may be of help to you if you think of the RLB as just a SWR meter which it really is, just a bit more fancy and you get  DB instead of a ratio.
The two will directly equal each other if you have a chart that tells how many db equal the the swr.

--- On Wed, 10/17/12, Bob - AF6D <bob@...> wrote:

From: Bob - AF6D <bob@...>
Subject: [hp8924] Re: Duplexer Tuning Revisited
To: hp8924@yahoogroups.com
Date: Wednesday, October 17, 2012, 5:57 PM

I don't mind asking questions but in some groups it might be frowned on. Rick has some tutorials and has been very helpful in the past. But I cannot find one that matches "Tuning a Duplexer with a SW1200N Return Loss Bridge and a 8924C". His tutorial is for an IFR and I am so green that I cannot convert in my head. But I am trying.

I/

# 1167. Re: [hp8924] Re: Duplexer Tuning Revisited

Yahoo group: hp8924
Date: 2012-10-18 06:33:41 UTC
From: Robert Atkinson
Topic: 1158  Message: 1167

Hi Bob,
Try searching the agilent website (and Google) for manuals and tutorials on the HP 8920 (A or B). The labels on the buttons may be different, but the heart of the 8924C is an 8920B. The 8920x  was marketed at analog comms so there is more relevant info out there than there is for the CDMA cell phone 8924C. Pardon the plug, but the RF tools software can help with testing too.

Robert G8RPI.

---
From: Bob - AF6D <bob@...>
To: hp8924@yahoogroups.com
Sent: Wednesday, 17 October 2012, 22:57
Subject: [hp8924] Re: Duplexer Tuning Revisited

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I think that we've narrowed down the desense to signal overload.

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# 1168. Re: Measure signal levels in dbm?

Yahoo group: hp8924
Date: 2012-10-18 14:13:19 UTC
From: Joe Leikhim
Topic: 1155  Message: 1168

The signal you are measuring has to be a 50 ohm source to read properly.

--
Joe Leikhim

Leikhim and Associates

Communications Consultants

Oviedo, Florida

JLeikhim@...

407-982-0446

WWW.LEIKHIM.COM

# 1169. Re: Duplexer Tuning Revisited

Yahoo group: hp8924
Date: 2012-10-18 14:44:14 UTC
From: Bob - AF6D
Topic: 1158  Message: 1169

You're awesome, Ralph. Rick also emailed me instructions to tune using a Return Loss Bridge. For the benefit of others they are:

The Amtronix SW2012N will work identical to the "IFR" bridge. Basically, you put a 50 ohm load on the antenna port of the duplexer, 8924c duplex out to the SW2012N input, SW2012N output to 8924C antenna input, SW2012N "DUT" port to the transmitter side of your duplexer. Sweep +/- 2 or 3 MHz . Tune duplexer for highest return loss (lowest SWR) at the transmitter frequency. The return loss at your tx freq should be about 20dB. This will take care of the transmitter side.

Hope this is useful to someone else.

--- In hp8924@yahoogroups.com, Ralph Mowery <ku4pt@...> wrote:
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> Look at this vidio.  It uses an E8285 and the screens are almost the same as the 8924C.
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> http://www.youtube.com/watch?v=P1wsG3FIU8w&feature=relmfu
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>  Here is for a single cavity
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> http://www.youtube.com/watch?v=bl5Nyn85SFs&feature=relmfu
>
> You tune the duplexer pass frequency with the return loss bridge.  Then you take the RLB out of line and tune the duplexer for the rejection notches.
>
> It may be of help to you if you think of the RLB as just a SWR meter which it really is, just a bit more fancy and you get  DB instead of a ratio.
> The two will directly equal each other if you have a chart that tells how many db equal the the swr.
>
>
> --- On Wed, 10/17/12, Bob - AF6D <bob@...> wrote:
>
>
> From: Bob - AF6D <bob@...>
> Subject: [hp8924] Re: Duplexer Tuning Revisited
> To: hp8924@yahoogroups.com
> Date: Wednesday, October 17, 2012, 5:57 PM
>
>
> I don't mind asking questions but in some groups it might be frowned on. Rick has some tutorials and has been very helpful in the past. But I cannot find one that matches "Tuning a Duplexer with a SW1200N Return Loss Bridge and a 8924C". His tutorial is for an IFR and I am so green that I cannot convert in my head. But I am trying.
>
> I/

>

# 1171. Re: Duplexer Tuning Revisited

Yahoo group: hp8924
Date: 2012-10-19 04:34:51 UTC
From: Bob - AF6D
Topic: 1158  Message: 1171

I was able to get a nice notch using a Return Loss Bridge but now I need to know the steps preferred (I am told) for tuning a duplexer.

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Hi Bob,
> Try searching the agilent website (and Google) for manuals and tutorials on the HP 8920 (A or B). The labels on the buttons may be different, but the heart of the 8924C is an 8920B. The 8920xÂ Â was marketed atÂ analog comms so there is more relevant info out there than there is for the CDMA cell phone 8924C. Pardon the plug, but the RF tools software can help with testingÂ too.
> Â
> Robert G8RPI.Â
>
>
>
> _____
> From: Bob - AF6D <bob@...>
> To: hp8924@yahoogroups.com
> Sent: Wednesday, 17 October 2012, 22:57
> Subject: [hp8924] Re: Duplexer Tuning Revisited
>
> Â
> I don't mind asking questions but in some groups it might be frowned on. Rick has some tutorials and has been very helpful in the past. But I cannot find one that matches "Tuning a Duplexer with a SW1200N Return Loss Bridge and a 8924C". His tutorial is for an IFR and I am so green that I cannot convert in my head. But I am trying.
>
> I think that we've narrowed down the desense to signal overload.
>
> --- In mailto:hp8924%40yahoogroups.com, Rix Seacord <eseacord@> wrote:
> >
> > Bob
> > Just some food for thought.
> > Did you look at the Amtronix website? I got some really good hints for
> > the 8924 from them.
> > We also have a preamp on our receivers. For a multitude of reasons, we
> > have to put in atten pads to keep the receiver from overloading however.
> > Sound familiar???
> > Are you sure your desense is not being caused by your feedline? Most
> > recommend only using silver plated dual braid shielded coax if using the
> > feedline for both xmit and rcve.
> > And last but not least, you are only a dummy if you don't ask and you
> > are a dummy for calling the other guy the same.
> > As you learn the 8924 you will find it to be one h*** of a box.

> > Good luck.
> > Rix K2AVP
> > On 10/17/2012 12:49 PM, Bob - AF6D wrote:
> > >
> > > I did not reach that conclusion. Another Elmer did so I cannot take
> > > credit for being that smart.
> > >
> > > At least you still have a memory LOL! I lost mine a long time ago.
> > > I've been living out of a children's cancer hospital with my daughter
> > > and trying to learn how to build an effective repeater at the same
> > > time. The vault is in place but needs to AC lines run underground
> > > along with the hard line in PVC. The trenches are dug. The antenna is
> > > mounted 85 feet up, a DB224e using Andrew's /2" hard line. But here at
> > > the house on a test antenna with LMR-400 and close proximity we
> > > suddenly have desense that we're trying to track down. I am going to
> > > replace the LMR with some 1/2" that I have and try again. But it
> > > appears that the Angle Linear 17dB preamp may be too much.
> > >
> > > Using your instructions below will that show me the notch of the
> > > duplexer? I'd like to be in tune mode. I know that I have .23dB loss
> > > currently and that is actually OK. Our amp won't run so hot. I have
> > > not run a SINAD test but the squelch with PL opens at -121dBm. The
> > > receiver is tested at .18uV.
> > >
> > > I'll follow your advice and see what I get. I am moldable. Just tell
> > > me how to learn this darn thing.
> > >
> > > My humble thanks.
> > >
> > > --- In mailto:hp8924%40yahoogroups.com <mailto:hp8924%40yahoogroups.com>,
> > > <mwbesemer@> wrote:
> > > >
> > > > Working from memory (something akin to using a camera without any
> > > film) but:
> > > >
> > > > 1) I think you should get more than -21 out of the Sig Gen in Duplex
> > > and
> > > > 2) You don't need to be in duplex mode
> > > >
> > > > Go from RF Out to Antenna In, set the Sig Gen for some value (-20 dB
> > > for example) at your frequency of interest. Turn off any modulation.
> > > Go to the Spec An and you should see a spectrum at the same level (-20
> > > dB) that you selected. At some point near 0 dB, it'll start to fall
> > > off... but not at -21 dB. (Don't forget to account for cable loss... I
> > > use short runs of REAL RG-214 about 18" long).
> > > >
> > > > If the cans are rated at -85 dB, I can see you getting 90 dB out of
> > > them pretty realistically, although I've never worked with these
> > > particular units. BUT, it's darn hard, if not impossible, to see -90
> > > dB of isolation. I can't recall the specs for the -8924, but I belive

> > > that at 90 dB you're approaching the limits of the instruments dynamic
> > > range.
> > > >
> > > > I have often used a receiver ot verify the depth of my notches. Do a
> > > SINAD measurement at the frequency of interest (notch frequency), then
> > > insert the duplexers into the line and repeat the measurement. The
> > > difference between the two measurements will be your notch depth (with
> > > the limfac being your abilty to measure SINAD accurately), assuming
> > > your signal generator is accurately putting out what it says it is.
> > > >
> > > > How much isolation does CommShop tell you you need?
> > > >
> > > > Mike
> > > > WM4B
> > > >
> > > > ---- Bob - AF6D <bob@> wrote:
> > > > > Actually, yes and no. It appears that the max signal out of the HP
> > > in "DUPLEX" mode is -21 db. So when looking at the notch depth, the
> > > spectrum analyzer references it's scale from 0 db. So if we take -21
> > > db reference point and add 90 db of duplexer notch, the spectrum
> > > analyzer will show the notch at -111 db on it's screen.
> > > > >
> > > > > In reverse the -111 db spectrum analyzer result minus the -21 db
> > > starting point gives you 90 db of duplexer notch. Exactly what I
> > > should have out of that duplexer.
> > > > >
> > > > > So we're both correct :=) I've read that with the proper harness
> > > one can get that extra 5dB. I didn't change it but it may have been
> > > changed by a prior owner. I don't know. :=(
> > > > >
> > > > > I need a nap. I should have bought a new duplexer pretuned and a
> > > simpler service monitor. One with training wheels. I feel so incapable
> > > right now.
> > > > >
> > > > > --- In mailto:hp8924%40yahoogroups.com <mailto:hp8924%40yahoogroups.com>,
> > > <mwbesemer@> wrote:
> > > > > >
> > > > > > Am I missing something? A Q2330 is only spec'ed at -85dB, isn't it?
> > > > > >
> > > > > > <http://www.repeater-builder.com/sinclair/q2330e-duplexer-specs.pdf>
> > > > > >
> > > > > > Mike
> > > > > > WM4B
> > > > > >
> > > > > > ---- Bob - AF6D <bob@> wrote:
> > > > > > > Humbly suggested, I am not a dummy and I am not stupid. But I
> > > am having a heck of a time. I cannot find a manual, video or otherwise
> > > that shows actual setup of an 8924c to use a SW1200N Return Loss
> > > Bridge to measure my Res-Lok Q2330. I have a desense issue and it has
> > > been suggested that although I was told that my duplexer was tuned to

> > > 111dB notch it is acting more like 85dB. I cannot verify one way or
> > > another until I get past this learning curve. I have ann excellent
> > > Angle Linear 2 cavity bandpass and it comes with a 17dB preamp.
> > > > > >
> > > > > > > The duplexer came from eBay. The seller lied about it and
> > > stated that it covered 136-174MHz. Not knowing the difference I got it
> > > cheap, only to learn that the rods were pushed all the way down "for
> > > shipping." We couldn't get it to the target of 147.705/105. We sourced
> > > INVAR and made new rods. Internally my associate fabricated proper
> > > plunger mounting and reported 111dB. He cleaned up the Q2330 and all
> > > seemed OK except on weak signals. The harness was not changed and the
> > > duplexer had been tuned for government stuff up at around 170MHz.
> > > > > >
> > > > > > > I have looked at the 8920B manual at
> > > http://www.manteoelectronics.com/Application_Handbook.pdf and do not
> > > see duplexer tuning. Call me names, call me Suzy; call me late for
> > > dinner. But is there a manual somewhere for dummies like me?
> > > > > >
> > > > > > > Frustrated and humble,
> > > > > >
> > > > > > > Bob
> > > > > > >
> > > > > >
> > > > >
> > > > >
> > > >
> > >
> > >
> >
>

# 1172. Setting Up an 8924C for Duplexer Tuning

Yahoo group: hp8924
Date: 2012-10-21 17:18:07 UTC
From: Bob - AF6D
Topic: 1172  Message: 1172

I am guessing as I do this with my head filled by other hams saying do this; no do THIS. Please help.

How do I setup the Duplex page of the 8924X and then the Spec Anl screen to tune a duplexer (WaCom WP-642).

I am assuming that Duplex out goes to my Ant In on the duplexer and the end ofg the cans goes to the RF In???

# 1173. Re: Setting Up an 8924C for Duplexer Tuning

Yahoo group: hp8924
Date: 2012-10-22 02:15:04 UTC
From: mojoehand
Topic: 1172  Message: 1173

http://www.amtronix.com/duplexertuning.htm

Joe

--- In hp8924@yahoogroups.com, "Bob - AF6D" <bob@...> wrote:
>
> I am guessing as I do this with my head filled by other hams saying do this; no do THIS. Please help.
>
> How do I setup the Duplex page of the 8924X and then the Spec Anl screen to tune a duplexer (WaCom WP-642).
>
> I am assuming that Duplex out goes to my Ant In on the duplexer and the end ofg the cans goes to the RF In???
>

# 1174. Re: [hp8924] Re: Setting Up an 8924C for Duplexer Tuning

Yahoo group: hp8924
Date: 2012-10-22 02:47:34 UTC
From: David Cameron
Topic: 1172  Message: 1174

You really need to find someone local to your area, who knows the 8924 or the 8920A/B to come over and walk over it with you. You should be able to find someone through this group.

If you leave the RLB out of the process, you can do it following the directions I posted a few weeks back, as long as the duplexer is already tuned for a 600khz offset. That way you don't have to adjust the coupling loops.

I sent directions on how to do a Q2220e or Q2330e dupe.

Dave Cameron
---
David Cameron - VE7LTD
IRLP System Designer - http://www.irlp.net

-----Original Message-----
From: "mojoehand" <mojoehand@yahoo.com>
Sender: hp8924@yahoogroups.com
Date: Mon, 22 Oct 2012 02:15:04
To: <hp8924@yahoogroups.com>
Reply-To: hp8924@yahoogroups.com
Subject: [hp8924] Re: Setting Up an 8924C for Duplexer Tuning

http://www.amtronix.com/duplexertuning.htm

Joe

--- In hp8924@yahoogroups.com, "Bob - AF6D" <bob@...> wrote:
>
> I am guessing as I do this with my head filled by other hams saying do this; no do THIS. Please help.
>
> How do I setup the Duplex page of the 8924X and then the Spec Anl screen to tune a duplexer (WaCom WP-642).
>
> I am assuming that Duplex out goes to my Ant In on the duplexer and the end ofg the cans goes to the RF In???
>

# 1175. Re: Setting Up an 8924C for Duplexer Tuning

Yahoo group: hp8924
Date: 2012-10-22 02:56:53 UTC
From: Bob - AF6D
Topic: 1172  Message: 1175

I ASKED HOW TO TUNE WITH AN 8924C AND NOT AN IFR!

--- In hp8924@yahoogroups.com, "mojoehand" <mojoehand@...> wrote:
>
>
>
> http://www.amtronix.com/duplexertuning.htm
>
> Joe
>
> --- In hp8924@yahoogroups.com, "Bob - AF6D" <bob@> wrote:
> >
> > I am guessing as I do this with my head filled by other hams saying do this; no do THIS. Please help.
> >
> > How do I setup the Duplex page of the 8924X and then the Spec Anl screen to tune a duplexer (WaCom WP-642).
> >
> > I am assuming that Duplex out goes to my Ant In on the duplexer and the end ofg the cans goes to the RF In???
> >
>

# 1176. Re: Setting Up an 8924C for Duplexer Tuning

Yahoo group: hp8924
Date: 2012-10-22 03:11:03 UTC
From: k6png
Topic: 1172  Message: 1176

Bob,
I think your comment is way out of line. Please do not respond like that on this list. You have been asking the same questions over and over on this list and the repeater builder list and everyone that tries to help you gets comments like the one below. I think you should go back and read all the suggestions and information that you have been given and then sit down with your service monitor and figure it out. It seems to me that you are making this whole situation harder on yourself than it should be.

Ray Retzlaff
K6PNG
List Owner.

--- In hp8924@yahoogroups.com, "Bob - AF6D" <bob@...> wrote:
>
> I ASKED HOW TO TUNE WITH AN 8924C AND NOT AN IFR!
>
> --- In hp8924@yahoogroups.com, "mojoehand" <mojoehand@> wrote:
> >
> >
> >
> > http://www.amtronix.com/duplexertuning.htm
> >
> > Joe
> >
> > --- In hp8924@yahoogroups.com, "Bob - AF6D" <bob@> wrote:
> > >
> > > I am guessing as I do this with my head filled by other hams saying do this; no do THIS. Please help.
> > >
> > > How do I setup the Duplex page of the 8924X and then the Spec Anl screen to tune a duplexer (WaCom WP-642).
> > >
> > > I am assuming that Duplex out goes to my Ant In on the duplexer and the end ofg the cans goes to the RF In???
> > >
> >
>

# 1177. Re: [hp8924] Setting Up an 8924C for Duplexer Tuning

Yahoo group: hp8924
Date: 2012-10-22 06:24:16 UTC
From: Robert Atkinson
Topic: 1172  Message: 1177

Bob,
You do not normally use the Duplex port of the 892#x for tuning duplexers. You use the RF out and Antenna ports.
If you look at the Amtronix "IFR" link that you derided you will se that it contains a hot link to a 8920 appliction note.

Robert G8RPI.

---
From: Bob - AF6D <bob@...>
To: hp8924@yahoogroups.com
Sent: Sunday, 21 October 2012, 18:18
Subject: [hp8924] Setting Up an 8924C for Duplexer Tuning

I am guessing as I do this with my head filled by other hams saying do this; no do THIS. Please help.

How do I setup the Duplex page of the 8924X and then the Spec Anl screen to tune a duplexer (WaCom WP-642).

I am assuming that Duplex out goes to my Ant In on the duplexer and the end ofg the cans goes to the RF In???

# 1178. Re: Setting Up an 8924C for Duplexer Tuning

Yahoo group: hp8924
Date: 2012-10-22 12:34:31 UTC
From: mojoehand
Topic: 1172  Message: 1178

Well, considering that the principle is the same, regardless of what service monitor you use, and the fact that what I posted tells you that there is also a section in the HP 8920A manual on how to do this, I figured that instructions from Amtronix might be helpful.

For my efforts, I get a nasty reply from you, with you screaming at me. If you want to throw a tantrum because I couldn't spoonfeed you just exactly what you wanted, because you are incapable of extrapolating useful information onto your situation, all I can say is **** ***. Don't look for any more help from me.

Joe

--- In hp8924@yahoogroups.com, "Bob - AF6D" <bob@...> wrote:
>
> I ASKED HOW TO TUNE WITH AN 8924C AND NOT AN IFR!
>
> --- In hp8924@yahoogroups.com, "mojoehand" <mojoehand@> wrote:
> >
> >
> >
> > http://www.amtronix.com/duplexertuning.htm
> >
> > Joe
> >
> > --- In hp8924@yahoogroups.com, "Bob - AF6D" <bob@> wrote:
> > >
> > > I am guessing as I do this with my head filled by other hams saying do this; no do THIS. Please help.
> > >
> > > How do I setup the Duplex page of the 8924X and then the Spec Anl screen to tune a duplexer (WaCom WP-642).
> > >
> > > I am assuming that Duplex out goes to my Ant In on the duplexer and the end ofg the cans goes to the RF In???
> > >
> >
>

# 1179. Re: Setting Up an 8924C for Duplexer Tuning

Yahoo group: hp8924
Date: 2012-10-22 23:02:53 UTC
From: Bob - AF6D
Topic: 1172  Message: 1179

I apologize. I am a guy that asks specific questions and hopes for an answer to the actual question. I have been sent the instructions for an IFR several times. The other list is not relevant here except to say there I asked where to buy a crystal filter and you see where it went. I will conduct myself accordingly.

--- In hp8924@yahoogroups.com, "k6png" <irlp3358@...> wrote:
>
>
> Bob,
> I think your comment is way out of line. Please do not respond like that on this list. You have been asking the same questions over and over on this list and the repeater builder list and everyone that tries to help you gets comments like the one below. I think you should go back and read all the suggestions and information that you have been given and then sit down with your service monitor and figure it out. It seems to me that you are making this whole situation harder on yourself than it should be.
>
> Ray Retzlaff
> K6PNG
> List Owner.
>
> --- In hp8924@yahoogroups.com, "Bob - AF6D" <bob@> wrote:
> >
> > I ASKED HOW TO TUNE WITH AN 8924C AND NOT AN IFR!
> >
> > --- In hp8924@yahoogroups.com, "mojoehand" <mojoehand@> wrote:
> > >
> > >
> > >
> > > http://www.amtronix.com/duplexertuning.htm
> > >
> > > Joe
> > >
> > > --- In hp8924@yahoogroups.com, "Bob - AF6D" <bob@> wrote:
> > > >
> > > > I am guessing as I do this with my head filled by other hams saying do this; no do THIS. Please help.
> > > >
> > > > How do I setup the Duplex page of the 8924X and then the Spec Anl screen to tune a duplexer (WaCom WP-642).
> > > >
> > > > I am assuming that Duplex out goes to my Ant In on the duplexer and the end ofg the cans goes to the RF In???
> > > >
> > >
> >

>

# 1180. Re: Setting Up an 8924C for Duplexer Tuning

Yahoo group: hp8924
Date: 2012-10-22 23:08:06 UTC
From: Bob - AF6D
Topic: 1172  Message: 1180

I again apologize but the copy Amtronix has sent me several times does not have a link to an 8920 application note. I really am just a new guy trying to learn and have a whole bunch of people telling me different ways to do things, it jumbles in my head, and when I can't make sense of it they think I'm not doing as asked. I have not been told until now that I use the RF port and the Antenna port. I will try that right away. Thank you for your time.

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Bob,
> You do not normally use the Duplex port of the 892#x for tuning duplexers. You use the RF out and Antenna ports.
> If you look at the Amtronix "IFR" link that you derided you will se that it contains a hot link to a 8920 appliction note.
> Â
> Robert G8RPI.
>
>
> _____
> From: Bob - AF6D <bob@...>
> To: hp8924@yahoogroups.com
> Sent: Sunday, 21 October 2012, 18:18
> Subject: [hp8924] Setting Up an 8924C for Duplexer Tuning
>
> Â
> I am guessing as I do this with my head filled by other hams saying do this; no do THIS. Please help.
>
> How do I setup the Duplex page of the 8924X and then the Spec Anl screen to tune a duplexer (WaCom WP-642).
>
> I am assuming that Duplex out goes to my Ant In on the duplexer and the end ofg the cans goes to the RF In???
>

# 1181. Re: Setting Up an 8924C for Duplexer Tuning

Yahoo group: hp8924
Date: 2012-10-22 23:09:53 UTC
From: Bob - AF6D
Topic: 1172  Message: 1181

Please accept my apology. In have asked this question a couple of times and I keep getting sent the Amtronix paper titled "Duplexer Tuning with the Amtronix SW2012N RLB" which is the same as the web address you gave me. It is just frustration coming out. Again I apologize.

--- In hp8924@yahoogroups.com, "mojoehand" <mojoehand@...> wrote:
>
> Well, considering that the principle is the same, regardless of what service monitor you use, and the fact that what I posted tells you that there is also a section in the HP 8920A manual on how to do this, I figured that instructions from Amtronix might be helpful.
>
> For my efforts, I get a nasty reply from you, with you screaming at me. If you want to throw a tantrum because I couldn't spoonfeed you just exactly what you wanted, because you are incapable of extrapolating useful information onto your situation, all I can say is **** ***. Don't look for any more help from me.
>
> Joe
>
> --- In hp8924@yahoogroups.com, "Bob - AF6D" <bob@> wrote:
> >
> > I ASKED HOW TO TUNE WITH AN 8924C AND NOT AN IFR!
> >
> > --- In hp8924@yahoogroups.com, "mojoehand" <mojoehand@> wrote:
> > >
> > >
> > >
> > > http://www.amtronix.com/duplexertuning.htm
> > >
> > > Joe
> > >
> > > --- In hp8924@yahoogroups.com, "Bob - AF6D" <bob@> wrote:
> > > >
> > > > I am guessing as I do this with my head filled by other hams saying do this; no do THIS. Please help.
> > > >
> > > > How do I setup the Duplex page of the 8924X and then the Spec Anl screen to tune a duplexer (WaCom WP-642).
> > > >
> > > > I am assuming that Duplex out goes to my Ant In on the duplexer and the end ofg the cans goes to the RF In???
> > > >
> > >
> >
>

# 1182. Re: Setting Up an 8924C for Duplexer Tuning

Yahoo group: hp8924
Date: 2012-10-22 23:26:26 UTC
From: Bob - AF6D
Topic: 1172  Message: 1182

If I understand you correctly I am supposed to be using a Return Loss Bridge and maybe this is where I haven't been clear. I am trying to do this without a RLB. I also read each line of the link you gave me and I can't find a link to the 8920. I was rude and don't expect you'll be inclined, but could you post the link that I cannot find? I really would appreciate it. I can tune using the RLB but then what about th4e RX side?

--- In hp8924@yahoogroups.com, "mojoehand" <mojoehand@...> wrote:
>
> Well, considering that the principle is the same, regardless of what service monitor you use, and the fact that what I posted tells you that there is also a section in the HP 8920A manual on how to do this, I figured that instructions from Amtronix might be helpful.
>
> For my efforts, I get a nasty reply from you, with you screaming at me. If you want to throw a tantrum because I couldn't spoonfeed you just exactly what you wanted, because you are incapable of extrapolating useful information onto your situation, all I can say is **** ***. Don't look for any more help from me.
>
> Joe
>
> --- In hp8924@yahoogroups.com, "Bob - AF6D" <bob@> wrote:
> >
> > I ASKED HOW TO TUNE WITH AN 8924C AND NOT AN IFR!
> >
> > --- In hp8924@yahoogroups.com, "mojoehand" <mojoehand@> wrote:
> > >
> > >
> > >
> > > http://www.amtronix.com/duplexertuning.htm
> > >
> > > Joe
> > >
> > > --- In hp8924@yahoogroups.com, "Bob - AF6D" <bob@> wrote:
> > > >
> > > > I am guessing as I do this with my head filled by other hams saying do this; no do THIS. Please help.
> > > >
> > > > How do I setup the Duplex page of the 8924X and then the Spec Anl screen to tune a duplexer (WaCom WP-642).
> > > >
> > > > I am assuming that Duplex out goes to my Ant In on the duplexer and the end ofg the cans goes to the RF In???
> > > >
> > >
> >
>

# 1183. Re: [hp8924] Re: Setting Up an 8924C for Duplexer Tuning

Yahoo group: hp8924
Date: 2012-10-22 23:40:52 UTC
From: Tony Brignole
Topic: 1172  Message: 1183

See page 207 of the HP8920A & B manual HP part no. 08920-90126 dated April 1996 Rev C.

Page 205 says that the tracking generator output is provided at either the front panel RF IN/Out or the Duplex Out Connector. [obviously you have to select right one in menu]

page 206 under Basic Measurements with the Tracking Generator item 1. "Connect the signal input to the RF IN/OUT or the Duplex Out Connector".

On several subsequent pages it shows examples where the output is from the Duplex out and the input is to the Antenna In on the HP 8920.

Some of the guys that are "super knowledgable" may want to drop HP a line and point out the errors in the manual.

I have a PDF of the applications manual and can email it to you but it is best off list as it is over 3 meg and will take awhile.

Contact me at abrigno@comcast.net.

----- Original Message -----
From: Bob - AF6D
To: hp8924@yahoogroups.com
Sent: Monday, October 22, 2012 6:08 PM
Subject: [hp8924] Re: Setting Up an 8924C for Duplexer Tuning

I again apologize but the copy Amtronix has sent me several times does not have a link to an 8920 application note. I really am just a new guy trying to learn and have a whole bunch of people telling me different ways to do things, it jumbles in my head, and when I can't make sense of it they think I'm not doing as asked. I have not been told until now that I use the RF port and the Antenna port. I will try that right away. Thank you for your time.

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Bob,
> You do not normally use the Duplex port of the 892#x for tuning duplexers. You use the RF out and Antenna ports.
> If you look at the Amtronix "IFR" link that you derided you will se that it contains a hot link to a 8920 appliction note.
> Â
> Robert G8RPI.
>
>
> _____
> From: Bob - AF6D <bob@...>
> To: hp8924@...m
> Sent: Sunday, 21 October 2012, 18:18
> Subject: [hp8924] Setting Up an 8924C for Duplexer Tuning

>
> Â
> I am guessing as I do this with my head filled by other hams saying do this; no do THIS. Please help.
>
> How do I setup the Duplex page of the 8924X and then the Spec Anl screen to tune a duplexer (WaCom WP-642).
>
> I am assuming that Duplex out goes to my Ant In on the duplexer and the end ofg the cans goes to the RF In???
>

# 1184. Re: Setting Up an 8924C for Duplexer Tuning

Yahoo group: hp8924
Date: 2012-10-22 23:45:15 UTC
From: Bob - AF6D
Topic: 1172  Message: 1184

AWESOME! I have several 8920 manuals and they are all different. You may send to me at bob@... and many thanks!!!

--- In hp8924@yahoogroups.com, "Tony Brignole" <abrigno@...> wrote:
>
> See page 207 of the HP8920A & B manual HP part no. 08920-90126 dated April 1996 Rev C.
>
> Page 205 says that the tracking generator output is provided at either the front panel RF IN/Out or the Duplex Out Connector. [obviously you have to select right one in menu]
>
> page 206 under Basic Measurements with the Tracking Generator item 1. "Connect the signal input to the RF IN/OUT or the Duplex Out Connector".
>
> On several subsequent pages it shows examples where the output is from the Duplex out and the input is to the Antenna In on the HP 8920.
>
> Some of the guys that are "super knowledgable" may want to drop HP a line and point out the errors in the manual.
>
> I have a PDF of the applications manual and can email it to you but it is best off list as it is over 3 meg and will take awhile.
>
> Contact me at abrigno@...
>
> ----- Original Message -----
> From: Bob - AF6D
> To: hp8924@yahoogroups.com
> Sent: Monday, October 22, 2012 6:08 PM
> Subject: [hp8924] Re: Setting Up an 8924C for Duplexer Tuning
>
>
>
> I again apologize but the copy Amtronix has sent me several times does not have a link to an 8920 application note. I really am just a new guy trying to learn and have a whole bunch of people telling me different ways to do things, it jumbles in my head, and when I can't make sense of it they think I'm not doing as asked. I have not been told until now that I use the RF port and the Antenna port. I will try that right away. Thank you for your time.
>
> --- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@> wrote:
> >
> > Bob,
> > You do not normally use the Duplex port of the 892#x for tuning duplexers. You use the RF out and Antenna ports.
> > If you look at the Amtronix "IFR" link that you derided you will se that it contains a hot link to a 8920 appliction note.

> > Â
> > Robert G8RPI.
> >
> >
> > _____
> > From: Bob - AF6D <bob@>
> > To: hp8924@yahoogroups.com
> > Sent: Sunday, 21 October 2012, 18:18
> > Subject: [hp8924] Setting Up an 8924C for Duplexer Tuning
> >
> > Â
> > I am guessing as I do this with my head filled by other hams saying do this; no do THIS. Please help.
> >
> > How do I setup the Duplex page of the 8924X and then the Spec Anl screen to tune a duplexer (WaCom WP-642).
> >
> > I am assuming that Duplex out goes to my Ant In on the duplexer and the end ofg the cans goes to the RF In???
> >
>

# 1185. Re: Setting Up an 8924C for Duplexer Tuning

Yahoo group: hp8924
Date: 2012-10-22 23:47:07 UTC
From: Bob - AF6D
Topic: 1172  Message: 1185

bob at af6d.com

--- In hp8924@yahoogroups.com, "Bob - AF6D" <bob@...> wrote:
>
> AWESOME! I have several 8920 manuals and they are all different. You may send to me at bob@... and many thanks!!!
>
> --- In hp8924@yahoogroups.com, "Tony Brignole" <abrigno@> wrote:
> >
> > See page 207 of the HP8920A & B manual HP part no. 08920-90126 dated April 1996 Rev C.
> >
> > Page 205 says that the tracking generator output is provided at either the front panel RF IN/Out or the Duplex Out Connector. [obviously you have to select right one in menu]
> >
> > page 206 under Basic Measurements with the Tracking Generator item 1. "Connect the signal input to the RF IN/OUT or the Duplex Out Connector".
> >
> > On several subsequent pages it shows examples where the output is from the Duplex out and the input is to the Antenna In on the HP 8920.
> >
> > Some of the guys that are "super knowledgable" may want to drop HP a line and point out the errors in the manual.
> >
> > I have a PDF of the applications manual and can email it to you but it is best off list as it is over 3 meg and will take awhile.
> >
> > Contact me at abrigno@
> >
> > ----- Original Message -----
> > From: Bob - AF6D
> > To: hp8924@yahoogroups.com
> > Sent: Monday, October 22, 2012 6:08 PM
> > Subject: [hp8924] Re: Setting Up an 8924C for Duplexer Tuning
> >
> >
> >
> > I again apologize but the copy Amtronix has sent me several times does not have a link to an 8920 application note. I really am just a new guy trying to learn and have a whole bunch of people telling me different ways to do things, it jumbles in my head, and when I can't make sense of it they think I'm not doing as asked. I have not been told until now that I use the RF port and the Antenna port. I will try that right away. Thank you for your time.
> >
> > --- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@> wrote:
> > >

> > > Bob,
> > > You do not normally use the Duplex port of the 892#x for tuning duplexers. You use the RF out and Antenna ports.
> > > If you look at the Amtronix "IFR" link that you derided you will se that it contains a hot link to a 8920 appliction note.
> > > Â
> > > Robert G8RPI.
> > >
> > >
> > > _____
> > > From: Bob - AF6D <bob@>
> > > To: hp8924@yahoogroups.com
> > > Sent: Sunday, 21 October 2012, 18:18
> > > Subject: [hp8924] Setting Up an 8924C for Duplexer Tuning
> > >
> > > Â
> > > I am guessing as I do this with my head filled by other hams saying do this; no do THIS. Please help.
> > >
> > > How do I setup the Duplex page of the 8924X and then the Spec Anl screen to tune a duplexer (WaCom WP-642).
> > >
> > > I am assuming that Duplex out goes to my Ant In on the duplexer and the end ofg the cans goes to the RF In???
> > >
> >
>

# 1186. Re: [hp8924] Re: Setting Up an 8924C for Duplexer Tuning

Yahoo group: hp8924
Date: 2012-10-23 00:03:34 UTC
From: David Cameron (IRLP)
Topic: 1172  Message: 1186

Linked from the original page that started this flame storm:

http://www.amtronix.com/duplexertuning.htm

At the bottom of the third paragraph, there is a link to the manual you
want. This was the reference to the 8920A/B from that IFR page:

http://cp.literature.agilent.com/litweb/pdf/08920-90126.pdf

Also, about 3 weeks ago I sent you a good step by step way that I tune
VHF duplexers.

Dave Cameron
VE7LTD

On 22/10/2012 4:45 PM, Bob - AF6D wrote:
> AWESOME! I have several 8920 manuals and they are all different. You may send to me at
bob@... and many thanks!!!
>
> --- In hp8924@yahoogroups.com, "Tony Brignole" <abrigno@...> wrote:
>>
>> See page 207 of the HP8920A & B manual HP part no. 08920-90126 dated April 1996 Rev C.
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>> Page 205 says that the tracking generator output is provided at either the front panel
RF IN/Out or the Duplex Out Connector. [obviously you have to select right one in menu]
>>
>> page 206 under Basic Measurements with the Tracking Generator item 1. "Connect the
signal input to the RF IN/OUT or the Duplex Out Connector".
>>
>> On several subsequent pages it shows examples where the output is from the Duplex out
and the input is to the Antenna In on the HP 8920.
>>
>> Some of the guys that are "super knowledgable" may want to drop HP a line and point out
the errors in the manual.
>>
>> I have a PDF of the applications manual and can email it to you but it is best off list
as it is over 3 meg and will take awhile.
>>
>> Contact me at abrigno@...
>>
>> ----- Original Message -----
>> From: Bob - AF6D
>> To: hp8924@yahoogroups.com
>> Sent: Monday, October 22, 2012 6:08 PM
>> Subject: [hp8924] Re: Setting Up an 8924C for Duplexer Tuning
>>

>>
>>
>> I again apologize but the copy Amtronix has sent me several times does not have a link to an 8920 application note. I really am just a new guy trying to learn and have a whole bunch of people telling me different ways to do things, it jumbles in my head, and when I can't make sense of it they think I'm not doing as asked. I have not been told until now that I use the RF port and the Antenna port. I will try that right away. Thank you for your time.
>>
>> --- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@> wrote:
>> >
>> > Bob,
>> > You do not normally use the Duplex port of the 892#x for tuning duplexers. You use the RF out and Antenna ports.
>> > If you look at the Amtronix "IFR" link that you derided you will se that it contains a hot link to a 8920 appliction note.
>> > ?
>> > Robert G8RPI.
>> >
>> >
>> > _____
>> > From: Bob - AF6D <bob@>
>> > To: hp8924@yahoogroups.com
>> > Sent: Sunday, 21 October 2012, 18:18
>> > Subject: [hp8924] Setting Up an 8924C for Duplexer Tuning
>> >
>> > ?
>> > I am guessing as I do this with my head filled by other hams saying do this; no do THIS. Please help.
>> >
>> > How do I setup the Duplex page of the 8924X and then the Spec Anl screen to tune a duplexer (WaCom WP-642).
>> >
>> > I am assuming that Duplex out goes to my Ant In on the duplexer and the end ofg the cans goes to the RF In???
>> >
>>
>
>
>

# 1187. RE: [hp8924] Re: Setting Up an 8924C for Duplexer Tuning

Yahoo group: hp8924
Date: 2012-10-23 00:38:58 UTC
From: Mike (WM4B)
Topic: 1172  Message: 1187

Actually, if you look at Message 1161 (17 Oct 2012), I told you to use the RF Port and the Antenna Port.

I (and a lot of others) am really trying to be helpful, but (like others) I□m getting frustrated with this thread. You simply cannot tune ANYTHING until you understand how to use the instrument. Once you get the -8924 to come up like an -8920 (already been explained) it□s very similar to the -8920. The buttons and keys may have some slight differences in labeling, but the instrument operates very similarly and it should not be difficult to extrapolate.

When I got my -8924, I□d already used an -8920, but it had been many, many years. All I did is set down in front of it with some cables, adapters, and a couple of attenuators and started playing with it. Within an hour or so, I□d pretty well mastered everything I needed to know to tune transmitters, receivers, duplexers, etc. If you□ve never used an -8920 before, it□ll take longer, but with a copy of the -8920 manual, you can work your way through the 8924. With the help of some videos on YouTube and the instructions on the Amtronix site, it just ain□t that hard.

I recall a recent post on □the other group□ where you asked for a source for attenuators. At the time, I really wondered why you couldn□t figure that out on your own but I posted an answer anyway as did 5 or 6 other folks all within an hour or so. Bottom line: All this reinforces the axiom: God helps those who Google it themselves.

Good luck Bob I hope you get all your issues solved, but I□m done. Do what I did, sit down in front of it and figure the damn thing out. Once you know how to use it, it□ll be easy enough for an extra class (code and all) like yourself to start tuning duplexers et al.

Mike
WM4B

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Bob - AF6D
Sent: Monday, October 22, 2012 7:08 PM
To: hp8924@yahoogroups.com
Subject: [hp8924] Re: Setting Up an 8924C for Duplexer Tuning

I again apologize but the copy Amtronix has sent me several times does not have a link to an 8920 application note. I really am just a new guy trying to learn and have a whole bunch of people telling me different ways to do things, it jumbles in my head, and when I can't make sense of it they think I'm not doing as asked. I have not been told until now that I use the RF port and the Antenna port. I will try that right away. Thank you for your

time.

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Bob,
> You do not normally use the Duplex port of the 892#x for tuning duplexers.
You use the RF out and Antenna ports.
> If you look at the Amtronix "IFR" link that you derided you will se that
it contains a hot link to a 8920 appliction note.
> Â
> Robert G8RPI.
>
>
> _____
> From: Bob - AF6D <bob@...>
> To: hp8924@yahoogroups.com
> Sent: Sunday, 21 October 2012, 18:18
> Subject: [hp8924] Setting Up an 8924C for Duplexer Tuning
>
> Â
> I am guessing as I do this with my head filled by other hams saying do
this; no do THIS. Please help.
>
> How do I setup the Duplex page of the 8924X and then the Spec Anl screen
to tune a duplexer (WaCom WP-642).
>
> I am assuming that Duplex out goes to my Ant In on the duplexer and the
end ofg the cans goes to the RF In???
>

# 1188. RE: Off List

Yahoo group: hp8924
Date: 2012-10-23 02:25:08 UTC
From: Mike (WM4B)
Topic: 1188  Message: 1188

Bob,

I did nothing but try to help you. I told you why I was done doing so and you chose to take the low road and use the only thing available to those who are of weak mind - vulgarity.

Thanks for showing me who you really are. Have a wonderful life - the Creator will ensure you reap what you sow.

Mike
WM4B

-----Original Message-----
From: Bob - CALOES [mailto:robert.ricci@...]
Sent: Monday, October 22, 2012 9:28 PM
To: 'Mike (WM4B)'
Subject: RE: Off List

Mike,

I was not rude to you at all. But so be it. SPAM list me all that you'd like. I too am done with all of you. You guys are a bunch of self-obsessed, arrogant assholes that like the sound of your own voice. You don't help. You spinning new guys around and force them to help themselves but without telling them enough of what they need. So you know what Mike, screw you and your arrogant ass.

-----Original Message-----
From: Mike (WM4B) [mailto:mwbesemer@...]
Sent: Monday, October 22, 2012 6:14 PM
To: 'Bob - AF6D'
Subject: RE: Off List

Good luck, Bob. As I said... I'm done with you.

Help yourself by helping yourself.

You're in my SPAM filter.

WM4B

-----Original Message-----
From: notify@yahoogroups.com [mailto:notify@yahoogroups.com] On Behalf Of Bob - AF6D
Sent: Monday, October 22, 2012 8:51 PM
To: Mike (WM4B)
Subject: Off List

Mike,

I am off list because I am tired of getting yelled at. I am getting conflicting information. I 3was told an hour ago to use the antenna port and not the duplex port, only to be told in another message not to use the duplex port but to use the antenna port. Yet the 8920 manual pictures using the RF port and the duplex port. I am trying but I find it hard to work with conflicting information. I've just been sent the 8920 manual again but not told the sections to read. I guess that I'll read them all. I can do a lot of things on the 8924c. I just cannot tune without an RLB. You act as if I am not listening to you. I am listening to everyone that that is working against me.

# 1189. FW: Off List

Yahoo group: hp8924
Date: 2012-10-23 02:27:33 UTC
From: Mike (WM4B)
Topic: 1189  Message: 1189

All,

This was a response to a private message that was sent to Bob by myself. Obviously he chooses to use multiple email addresses and as several have suggested, is probably spoofing email addresses.

I tried to help the man in good faith and this is how he chooses to treat me.

Reap what you sow, Bob... and may God bless you; you surely need it.

Mike
WM4B

-----Original Message-----
From: Admin [mailto:admin@...]
Sent: Monday, October 22, 2012 9:47 PM
To: 'Mike (WM4B)'
Subject: RE: Off List

SPAM filters seldom work.

-----Original Message-----
From: Mike (WM4B) [mailto:mwbesemer@...]
Sent: Monday, October 22, 2012 6:14 PM
To: 'Bob - AF6D'
Subject: RE: Off List

Good luck, Bob. As I said... I'm done with you.

Help yourself by helping yourself.

You're in my SPAM filter.

WM4B

-----Original Message-----
From: notify@yahoogroups.com [mailto:notify@yahoogroups.com] On Behalf Of Bob - AF6D
Sent: Monday, October 22, 2012 8:51 PM
To: Mike (WM4B)
Subject: Off List

Mike,

I am off list because I am tired of getting yelled at. I am getting conflicting information. I 3was told an hour ago to use the antenna port and not the duplex port, only to be told in another message not to use the

duplex port but to use the antenna port. Yet the 8920 manual pictures using the RF port and the duplex port. I am trying but I find it hard to work with conflicting information. I've just been sent the 8920 manual again but not told the sections to read. I guess that I'll read them all. I can do a lot of things on the 8924c. I just cannot tune without an RLB. You act as if I am not listening to you. I am listening to everyone that that is working against me.

# 1190. FW: Off List

Yahoo group: hp8924
Date: 2012-10-23 02:38:00 UTC
From: Mike (WM4B)
Topic: 1189  Message: 1190

And more from our friend Bob.

Bob... I suggest that you quit while you're ahead... you're just proving what everyone else already thinks.

Vulgarity is what occurs when a weak mind attempts to express itself.

Enjoy your miserable existence.

Mike
WM4B

-----Original Message-----
From: Bob - 911 [mailto:bobricci@...]
Sent: Monday, October 22, 2012 9:30 PM
To: 'Mike (WM4B)'
Subject: RE: Off List

Click to shrink...

OMG! You even look light a flatulent self-obsessed asshat! LOL

-----Original Message-----
From: Mike (WM4B) [mailto:mwbesemer@...]
Sent: Monday, October 22, 2012 6:14 PM
To: 'Bob - AF6D'
Subject: RE: Off List

Good luck, Bob. As I said... I'm done with you.

Help yourself by helping yourself.

You're in my SPAM filter.

WM4B

-----Original Message-----

From: notify@yahoogroups.com [mailto:notify@yahoogroups.com] On Behalf Of

Bob - AF6D

Sent: Monday, October 22, 2012 8:51 PM

To: Mike (WM4B)

Subject: Off List

Mike,

I am off list because I am tired of getting yelled at. I am getting conflicting information. I 3was told an hour ago to use the antenna port and not the duplex port, only to be told in another message not to use the duplex port but to use the antenna port. Yet the 8920 manual pictures using the RF port and the duplex port. I am trying but I find it hard to work with conflicting information. I've just been sent the 8920 manual again but not told the sections to read. I guess that I'll read them all. I can do a lot of things on the 8924c. I just cannot tune without an RLB. You act as if I am not listening to you. I am listening to everyone that that is working against me.

# 1191. RE: Off List

Yahoo group: hp8924
Date: 2012-10-23 02:54:49 UTC
From: Mike Besemer (WM4B
Topic: 1188  Message: 1191

Gee Bob... sorry about crossing that line.

Perhaps if you weren't so busy making up new email addresses to spam me with it wouldn't be such a problem

Oh... not to mention your personal attacks on me.

Later, looser.

WM4B

-----Original Message-----
From: Bob - 911 [mailto:bobricci@...]
Sent: Monday, October 22, 2012 10:46 PM
To: 'Mike (WM4B)'
Subject: RE: Off List

You did little to help me and more to ridicule me. Go screw yourself. And by the way, posting private emails to the group is crossing a line.

-----Original Message-----
From: Mike (WM4B) [mailto:mwbesemer@...]
Sent: Monday, October 22, 2012 7:38 PM
To: Repeater-Builder@yahoogroups.com; hp8924@yahoogroups.com
Cc: bobricci@...
Subject: FW: Off List

And more from our friend Bob.

Bob... I suggest that you quit while you're ahead... you're just proving what everyone else already thinks.

Vulgarity is what occurs when a weak mind attempts to express itself.

Enjoy your miserable existence.

Mike
WM4B

-----Original Message-----
From: Bob - 911 [mailto:bobricci@...]
Sent: Monday, October 22, 2012 9:30 PM
To: 'Mike (WM4B)'
Subject: RE: Off List

Click to shrink...

OMG! You even look light a flatulent self-obsessed asshat! LOL

-----Original Message-----
From: Mike (WM4B) [mailto:mwbesemer@...]
Sent: Monday, October 22, 2012 6:14 PM
To: 'Bob - AF6D'
Subject: RE: Off List

Good luck, Bob. As I said... I'm done with you.

Help yourself by helping yourself.

You're in my SPAM filter.

WM4B

-----Original Message-----

From: notify@yahoogroups.com [mailto:notify@yahoogroups.com] On Behalf Of

Bob - AF6D

Sent: Monday, October 22, 2012 8:51 PM

To: Mike (WM4B)

Subject: Off List

Mike,

I am off list because I am tired of getting yelled at. I am getting conflicting information. I 3was told an hour ago to use the antenna port and not the duplex port, only to be told in another message not to use the duplex port but to use the antenna port. Yet the 8920 manual pictures using the RF port and the duplex port. I am trying but I find it hard to work with conflicting information. I've just been sent the 8920 manual again but not told the sections to read. I guess that I'll read them all. I can do a lot of things on the 8924c. I just cannot tune without an RLB. You act as if I am not listening to you. I am listening to everyone that that is working against me.

# 1192. RE: [Repeater-Builder] RE: Off List

Yahoo group: hp8924
Date: 2012-10-23 02:57:32 UTC
From: Mike Besemer (WM4B
Topic: 1192  Message: 1192
Attachments: 2 described; binary payloads are missing from this source WARC

Rod,

Of course you're right and I apologize. However, I wanted everyone to be aware of the antics Bob is up to. He continues to harasses me off-list now. Each and every email he sends is being forwarded back to his ISP.

I won't post any more of his rants back here… I think everyone gets the idea.

My personal apologizes to Kevin and the group.

Mike

WM4B

From: Repeater-Builder@yahoogroups.com [mailto:Repeater-Builder@yahoogroups.com] On Behalf Of Rodney Rockwell
Sent: Monday, October 22, 2012 10:50 PM
To: Repeater-Builder@yahoogroups.com; 'Bob - CALOES'
Cc: hp8924@yahoogroups.com
Subject: Re: [Repeater-Builder] RE: Off List

It is a terrible shame this kind of bickering has to be done on this forum. Like most, I joined with the idea we all were here to share our knowledge and expertise with those who were wanting to learn and to learn from those who had the knowledge and expertise that were patient enough to share their skills. I am disappointed with the exchanges over the last several days. To think the caliber of persons possessing such high degree of technical knowledge has reached this level is an embarrassment. This is the kind of behavior I would not expect from adults.

73,

Rod

N8RAT

From: Mike (WM4B) <mwbesemer@...>
To: 'Bob - CALOES' <robert.ricci@...>
Cc: Repeater-Builder@yahoogroups.com; hp8924@yahoogroups.com
Sent: Monday, October 22, 2012 10:25 PM
Subject: [Repeater-Builder] RE: Off List

Bob,

I did nothing but try to help you. I told you why I was done doing so and
you chose to take the low road and use the only thing available to those who
are of weak mind - vulgarity.

Thanks for showing me who you really are. Have a wonderful life - the Creator will ensure you reap what you sow.

Mike
WM4B

-----Original Message-----
From: Bob - CALOES [mailto:mailto:robert.ricci%40caloes.net]
Sent: Monday, October 22, 2012 9:28 PM
To: 'Mike (WM4B)'
Subject: RE: Off List

Mike,

I was not rude to you at all. But so be it. SPAM list me all that you'd like. I too am done with all of you. You guys are a bunch of self-obsessed, arrogant assholes that like the sound of your own voice. You don't help. You spinning new guys around and force them to help themselves but without telling them enough of what they need. So you know what Mike, screw you and your arrogant ass.

-----Original Message-----
From: Mike (WM4B) [mailto:mailto:mwbesemer%40cox.net]
Sent: Monday, October 22, 2012 6:14 PM
To: 'Bob - AF6D'
Subject: RE: Off List

Good luck, Bob. As I said... I'm done with you.

Help yourself by helping yourself.

You're in my SPAM filter.

WM4B

-----Original Message-----
From: mailto:notify%40yahoogroups.com [mailto:mailto:notify%40yahoogroups.com] On Behalf Of
Bob - AF6D
Sent: Monday, October 22, 2012 8:51 PM
To: Mike (WM4B)
Subject: Off List

Mike,

I am off list because I am tired of getting yelled at. I am getting conflicting information. I 3was told an hour ago to use the antenna port and not the duplex port, only to be told in another message not to use the duplex port but to use the antenna port. Yet the 8920 manual pictures using the RF port and the duplex port. I am trying but I find it hard to work with conflicting information. I've just been sent the 8920 manual again but not told the sections to read. I guess that I'll read them all. I can do a lot of things on the 8924c. I just cannot tune without an RLB. You act as if I am not listening to you. I am listening to everyone that that is working

against me.

# 1193. Re: Setting Up an 8924C for Duplexer Tuning

Yahoo group: hp8924
Date: 2012-10-23 03:07:27 UTC
From: wb6dgn_tom@att.net
Topic: 1172  Message: 1193

Bob,
I don't know what you do for a living and this may well be irrelevant but I will offer it anyway for your consideration.
Have you thought of looking for a job as a LMR tech. assistant or installer? Being around this stuff all day does wonders for the assimilation of concepts that may not be immediately evident to the untrained eye. In addition, you most likely will have ready availability to a source of immediate answers to your questions and , most likely, demonstrations.
All in all, its really not a bad job. I just finished up 50+ years of it and, in the final analysis, I could have done a lot worse. For me, the pay wasn't great but that appears to be changing (finally!) as fewer ETs have hands on experience in analog, and, specifically, RF areas.
Just a thought for your consideration.
Tom

By the way, HOW does one YELL at someone on a typewritten page??? Does it REALLY hurt your ears (or just your ego?)? And NO, I don't buy that baloney about typing in capitals. That is merely TYPING IN CAPITALS! Perhaps there is some type of new wireless communication taking place here that I'm not aware of???
Tom

--- In hp8924@yahoogroups.com, "Bob - AF6D" <bob@...> wrote:
>
> I again apologize but the copy Amtronix has sent me several times does not have a link to an 8920 application note. I really am just a new guy trying to learn and have a whole bunch of people telling me different ways to do things, it jumbles in my head, and when I can't make sense of it they think I'm not doing as asked. I have not been told until now that I use the RF port and the Antenna port. I will try that right away. Thank you for your time.
>
> --- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@> wrote:
> >
> > Bob,
> > You do not normally use the Duplex port of the 892#x for tuning duplexers. You use the RF out and Antenna ports.
> > If you look at the Amtronix "IFR" link that you derided you will se that it contains a hot link to a 8920 appliction note.
> > Â
> > Robert G8RPI.
> >
> >
> > _____
> > From: Bob - AF6D <bob@>
> > To: hp8924@yahoogroups.com
> > Sent: Sunday, 21 October 2012, 18:18
> > Subject: [hp8924] Setting Up an 8924C for Duplexer Tuning

> >
> > Â
> > I am guessing as I do this with my head filled by other hams saying do this; no do THIS. Please help.
> >
> > How do I setup the Duplex page of the 8924X and then the Spec Anl screen to tune a duplexer (WaCom WP-642).
> >
> > I am assuming that Duplex out goes to my Ant In on the duplexer and the end ofg the cans goes to the RF In???
> >
>

# 1194. Re: Off List

Yahoo group: hp8924
Date: 2012-10-23 03:36:49 UTC
From: wb6dgn_tom@att.net
Topic: 1188  Message: 1194

Guys, at the risk of taking sides (believe me, I am not taking sides) perhaps no one has considered that, from what I have read in earlier posts, Bob is already going through trials that I couldn't wish on my worst enemy. That constant fear that a loved one will suddenly, and, maybe irreversibly, take a turn for the worse has got to be a burden that few of us can bear gracefully. I know, I, too, am facing a similar challenge now and have in the past. I can't even begin to imagine what a PITA I was to those around me at work and, try as you might, sometimes there's just not enough fight left in you to "leave it at home!" as the saying goes.
And stating that the Creator (GOD, to me) will repay one, in kind, has got to cut deeper that any knife ever could. If one truly wants to hurt someone, that's surely the way to do it!
How about EVERYONE just drop this whole thread; maybe the owner should just delete it all; and start over a few days from now? Too many people have shot themselves in the foot here, no doubt ALL unintentionally.
Tom

--- In hp8924@yahoogroups.com, "Mike \(WM4B\)" <mwbesemer@...> wrote:
>
> Bob,
>
> I did nothing but try to help you. I told you why I was done doing so and
> you chose to take the low road and use the only thing available to those who
> are of weak mind - vulgarity.
>
> Thanks for showing me who you really are. Have a wonderful life - the
> Creator will ensure you reap what you sow.
>
> Mike
> WM4B
>
> -----Original Message-----
> From: Bob - CALOES [mailto:robert.ricci@...]
> Sent: Monday, October 22, 2012 9:28 PM
> To: 'Mike (WM4B)'
> Subject: RE: Off List
>
> Mike,
>
> I was not rude to you at all. But so be it. SPAM list me all that you'd
> like. I too am done with all of you. You guys are a bunch of self-obsessed,
> arrogant assholes that like the sound of your own voice. You don't help. You
> spinning new guys around and force them to help themselves but without
> telling them enough of what they need. So you know what Mike, screw you and
> your arrogant ass.
>

> -----Original Message-----
> From: Mike (WM4B) [mailto:mwbesemer@...]
> Sent: Monday, October 22, 2012 6:14 PM
> To: 'Bob - AF6D'
> Subject: RE: Off List
>
> Good luck, Bob. As I said... I'm done with you.
>
> Help yourself by helping yourself.
>
> You're in my SPAM filter.
>
> WM4B
>
> -----Original Message-----
> From: notify@yahoogroups.com [mailto:notify@yahoogroups.com] On Behalf Of
> Bob - AF6D
> Sent: Monday, October 22, 2012 8:51 PM
> To: Mike (WM4B)
> Subject: Off List
>
> Mike,
>
> I am off list because I am tired of getting yelled at. I am getting
> conflicting information. I 3was told an hour ago to use the antenna port and
> not the duplex port, only to be told in another message not to use the
> duplex port but to use the antenna port. Yet the 8920 manual pictures using
> the RF port and the duplex port. I am trying but I find it hard to work with
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> told the sections to read. I guess that I'll read them all. I can do a lot
> of things on the 8924c. I just cannot tune without an RLB. You act as if I
> am not listening to you. I am listening to everyone that that is working
> against me.
>

# 1195. Re: Off List

Yahoo group: hp8924
Date: 2012-10-23 03:46:46 UTC
From: k6png
Topic: 1188  Message: 1195

Bob has left the list on his own. I took his situation into consideration and did not reply to a personal message he sent me that was very colorful. Lets all move on.

Ray
K6PNG
List Owner

--- In hp8924@yahoogroups.com, "wb6dgn_tom@..." <wb6dgn_tom@...> wrote:
>
>
>
> Guys, at the risk of taking sides (believe me, I am not taking sides) perhaps no one has considered that, from what I have read in earlier posts, Bob is already going through trials that I couldn't wish on my worst enemy. That constant fear that a loved one will suddenly, and, maybe irreversibly, take a turn for the worse has got to be a burden that few of us can bear gracefully. I know, I, too, am facing a similar challenge now and have in the past. I can't even begin to imagine what a PITA I was to those around me at work and, try as you might, sometimes there's just not enough fight left in you to "leave it at home!" as the saying goes.
> And stating that the Creator (GOD, to me) will repay one, in kind, has got to cut deeper that any knife ever could. If one truly wants to hurt someone, that's surely the way to do it!
> How about EVERYONE just drop this whole thread; maybe the owner should just delete it all; and start over a few days from now? Too many people have shot themselves in the foot here, no doubt ALL unintentionally.
> Tom
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> --- In hp8924@yahoogroups.com, "Mike \(WM4B\)" <mwbesemer@> wrote:
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> > I did nothing but try to help you. I told you why I was done doing so and
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> > are of weak mind - vulgarity.
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> > Mike
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> > Mike,
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> > Good luck, Bob. As I said... I'm done with you.
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> > Help yourself by helping yourself.
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> > You're in my SPAM filter.
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> > WM4B
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> > -----Original Message-----
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> > Bob - AF6D
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> > of things on the 8924c. I just cannot tune without an RLB. You act as if I
> > am not listening to you. I am listening to everyone that that is working
> > against me.
> >
>

# 1196. Re: [hp8924] Re: Setting Up an 8924C for Duplexer Tuning

Yahoo group: hp8924
Date: 2012-10-23 12:15:36 UTC
From: Tony Brignole
Topic: 1172  Message: 1196
Attachments: 1 described; binary payloads are missing from this source WARC

See if this helps. The controls are very very similar but not exact so think ahead a little. Also, these manuals leave a lot to be desired.

This manual is a hoss.

You can sweep cavities with the tracking generator and then fine tune with the RLB if needed. RLB is best but not totaly essential.

Find the knobs/screws etc on your cavities so you know what to turn and what does what.

There are 2 controls. One controls the space between the dip and the peak and one moves the whole shooting match. Set the space between the peak and the dip to around 600 KHz and then move whole sequence to right place. These slightly interact so when you get them very close. You will need to touch up. Remember the shapes [pass reject] reverse for TX and RX. One will have the pass low and notch hi the other will be reversed. Be carefull on this one. I screwed up a set of cavities once years ago. Also flex the screws to make sure they move easily etc.

When you get the one cavity hooked up - mess with it!!!! Turn screws adjustments to see what each do and how they affect each other. If you get close you can set span on 8924 to 1 MHZ and see whole shape on screen. If you can't find initial frequency then set freq to around 150 Mhz and span to say 20 Mhz. You can locate the curve and then move closer to it and expand it.

Start out and tune one cavity at a time. When you get cavities on one side aligned then hook them togehter and check fine tune the whole side.

Set up tracking generator analyzer for wide span so you can see current peak and dip.

Set space between peak and dip.

Move whole curve to close to correct spot.

Make span more narrow so you can see exact shape etc of peak and or dip. Then fine tune.

The pass peak is best tuned [not essential] with the RLB as it is more sensitive and shows the exact location of the pass which is the highes Return Loss. It is also critical to have the dip at the right spot to reject trans into receiver. You and also fine tune this with and RLB by going for the lowest return loss.

It looks like you are new to the 8924C and it is like telling sombody how to fly a 747 when they just got in the cockpit. Lot of controls and variable.

I have been in electronics all my life [degrees in Chemical, Mechanical, Electrical Eng] and it took me over a year to get comfortable with my 8924 and I am still finding stuff I didn't know it had. Also don't the let the assholes kid you; the manuals are "minimum essential" at best.

----- Original Message -----
From: Bob - AF6D
To: hp8924@yahoogroups.com
Sent: Monday, October 22, 2012 6:45 PM
Subject: [hp8924] Re: Setting Up an 8924C for Duplexer Tuning

AWESOME! I have several 8920 manuals and they are all different. You may send to me at bob@... and many thanks!!!

--- In hp8924@yahoogroups.com, "Tony Brignole" <abrigno@...> wrote:
>
> See page 207 of the HP8920A & B manual HP part no. 08920-90126 dated April 1996 Rev C.
>
> Page 205 says that the tracking generator output is provided at either the front panel RF IN/Out or the Duplex Out Connector. [obviously you have to select right one in menu]
>
> page 206 under Basic Measurements with the Tracking Generator item 1. "Connect the signal input to the RF IN/OUT or the Duplex Out Connector".
>
> On several subsequent pages it shows examples where the output is from the Duplex out and the input is to the Antenna In on the HP 8920.
>
> Some of the guys that are "super knowledgable" may want to drop HP a line and point out the errors in the manual.
>
> I have a PDF of the applications manual and can email it to you but it is best off list as it is over 3 meg and will take awhile.
>
> Contact me at abrigno@...
>
> ----- Original Message -----
> From: Bob - AF6D
> To: hp8924@yahoogroups.com
> Sent: Monday, October 22, 2012 6:08 PM
> Subject: [hp8924] Re: Setting Up an 8924C for Duplexer Tuning
>
>
>
> I again apologize but the copy Amtronix has sent me several times does not have a link to an 8920 application note. I really am just a new guy trying to learn and have a whole bunch of people telling me different ways to do things, it jumbles in my head, and when I can't make sense of it they think I'm not doing as asked. I have not been told until now that I use the RF port and the Antenna port. I will try that right away. Thank you for your time.
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> --- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@> wrote:
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> > Bob,
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> > Robert G8RPI.
> >
> >
> > _____
> > From: Bob - AF6D <bob@>
> > To: hp8924@yahoogroups.com
> > Sent: Sunday, 21 October 2012, 18:18
> > Subject: [hp8924] Setting Up an 8924C for Duplexer Tuning
> >
> > Â
> > I am guessing as I do this with my head filled by other hams saying do this; no do THIS. Please help.
> >
> > How do I setup the Duplex page of the 8924X and then the Spec Anl screen to tune a duplexer (WaCom WP-642).
> >
> > I am assuming that Duplex out goes to my Ant In on the duplexer and the end ofg the cans goes to the RF In???
> >
>

# 1197. Re: [hp8924] Re: Setting Up an 8924C for Duplexer Tuning

Yahoo group: hp8924
Date: 2012-10-23 13:53:43 UTC
From: Tony Brignole
Topic: 1172  Message: 1197

Sorry about the profanity guys!!!

Thought I was sending to Bob off list and hit wrong button.

Have sent PDF copy of 8920B Applications manual that I have. I had Office Depot Print it out for me so I have paper copy to reference. The several manuals I have in PDF printed out at nearly a 1000 pages.

Most aren't very helpfull. As many of you have pointed out it there is no "silver bullet" and a lot of background knowledge is required. It's like trying to tell someone how to fly a new plane if they have never been a pilot.

The bottom line is I love my 8924C and Eagle RLB1000 and can't remember how I got along without them.

----- Original Message -----
From: Bob - AF6D
To: hp8924@yahoogroups.com
Sent: Monday, October 22, 2012 6:47 PM
Subject: [hp8924] Re: Setting Up an 8924C for Duplexer Tuning

bob at af6d.com

--- In hp8924@yahoogroups.com, "Bob - AF6D" <bob@...> wrote:
>
> AWESOME! I have several 8920 manuals and they are all different. You may send to me at bob@... and many thanks!!!
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> >
> > Some of the guys that are "super knowledgable" may want to drop HP a line and point out the errors in the manual.
> >
> > I have a PDF of the applications manual and can email it to you but it is best off list as it is over 3 meg and will take awhile.
> >

> > Contact me at abrigno@
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> >
>

# 1198. HP8920A/B Training Tape on VHS UPDATE Number 3 (Duplexer Tuning!)

Yahoo group: hp8924
Date: 2012-10-23 17:04:30 UTC
From: rfiemiguy
Topic: 1198  Message: 1198

To all:

The digital version of the HP8920A/B Factory Training VHS Tape is still available on line.

By the way at about 22 minutes there is a demo tuning of a duplexer. I think it is a band reject duplexer. A pass reject duplexer has extra required steps of tuning the passbands.

Use these links or try the link I just added to the "LINKS" section. You will need an MPEG 4 codec to view this, so you might have to download one.

I loaded into my iPod Touch and it works fine, but the button and screen labels on the instrument are tiny!

www.vvgmc.org/freda/Hp8920a Rf Communication Set-1.m4v

http://goo.gl/BQC5f

# 1199. RF Tools

Yahoo group: hp8924
Date: 2012-10-24 00:07:27 UTC
From: MICHAEL SMITH
Topic: 1199  Message: 1199

I have been playing with the RF Tools and when I load the "North American FM Test" (NA_FM) I get this error:

Error 18 in 1356 String ovfl. or substring err

Any ideas? Is it a problem with the PCMCIA card or data? Or a problem with the 8924C? Or operator error. Everything else loads fine.

Sent from my iPhone 5

Mike / KB8WLW

# 1200. Re: RF Tools

Yahoo group: hp8924
Date: 2012-10-24 00:36:19 UTC
From: mojoehand
Topic: 1199  Message: 1200

This has been discussed before. Some of those programs don't run on the later models. I suspect it has to do with hardware differences. I intend to take a look at the source code at some point, but don't know when that will be

Joe

--- In hp8924@yahoogroups.com, MICHAEL SMITH <kb8wlw@...> wrote:
>
> I have been playing with the RF Tools and when I load the "North American FM Test" (NA_FM) I get this error:
>
> Error 18 in 1356 String ovfl. or substring err
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> Any ideas? Is it a problem with the PCMCIA card or data? Or a problem with the 8924C? Or operator error. Everything else loads fine.
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> Mike / KB8WLW
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# 1201. Re: Setting Up an 8924C for Duplexer Tuning

Yahoo group: hp8924
Date: 2012-10-24 04:20:15 UTC
From: wb6dgn_tom@att.net
Topic: 1172  Message: 1201

Just a "for what its worth".
I've owned and used HP test equipment since the early '60s beginning with a modified 5532A frequency counter and then a 5245L, 500Mc. counter among others. One thing that has always stood out in my observation of HP gear is that the manuals supplied with the equipment have always been very cryptic and difficult to understand. Its as if the manuals were prepared, not by tech. writers, but by the engineers who designed the equipment themselves (don't know whether that is true or not but seems that way). The assumption is very clear that the user is totally familiar with the application and uses of the equipment even before opening the box. Perhaps this is so because their equipment was rarely sold to individuals or small shops but, rather, to large organizations who (1) could afford the equipment and (2) could afford to organize and supply the requisite training to go with the equipment.
I, personally, was fortunate in having a friend who was an HP engineer working in the test equipment division who not only made me aware of the appropriate product for my needs but supplied the necessary "education" in its proper use and, in the case of the 5532, even supplied modification information to extend its frequency range considerably beyond its design specs. As a result, my experience was a little bit more "streamlined" than some others.
I have, however, experienced this problem with the 8924 even though I sorta know what to expect from the manuals and the instrument. (Anybody remember HP's calculators? The RPN notation? Another example of what I am trying to convey.)
That said, after spending a dozen hours or so with my 8924, I wouldn't trade it for the world. As with anything HP, it will pay back my investment in time with capability and accuracy only dreamt about by the competition. Of course YMMV.
Tom

--- In hp8924@yahoogroups.com, "Tony Brignole" <abrigno@...> wrote:
>
> Sorry about the profanity guys!!!
>
> Thought I was sending to Bob off list and hit wrong button.
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> Have sent PDF copy of 8920B Applications manual that I have. I had Office Depot Print it out for me so I have paper copy to reference. The several manuals I have in PDF printed out at nearly a 1000 pages.
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> Sent: Monday, October 22, 2012 6:47 PM
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> > > I again apologize but the copy Amtronix has sent me several times does not have a link to an 8920 application note. I really am just a new guy trying to learn and have a whole bunch of people telling me different ways to do things, it jumbles in my head, and when I can't make sense of it they think I'm not doing as asked. I have not been told until now that I use the RF port and the Antenna port. I will try that right away. Thank you for your time.
> > >

> > > --- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@> wrote:
> > > >
> > > > Bob,
> > > > You do not normally use the Duplex port of the 892#x for tuning duplexers. You use the RF out and Antenna ports.
> > > > If you look at the Amtronix "IFR" link that you derided you will se that it contains a hot link to a 8920 appliction note.
> > > > Â
> > > > Robert G8RPI.
> > > > >
> > > > >
> > > > _____
> > > > From: Bob - AF6D <bob@>
> > > > To: hp8924@yahoogroups.com
> > > > Sent: Sunday, 21 October 2012, 18:18
> > > > Subject: [hp8924] Setting Up an 8924C for Duplexer Tuning
> > > > >
> > > > Â
> > > > I am guessing as I do this with my head filled by other hams saying do this; no do THIS. Please help.
> > > > >
> > > > How do I setup the Duplex page of the 8924X and then the Spec Anl screen to tune a duplexer (WaCom WP-642).
> > > > >
> > > > I am assuming that Duplex out goes to my Ant In on the duplexer and the end ofg the cans goes to the RF In???
> > > > >
> > > >
> >
>

# 1202. Re: [hp8924] Re: Setting Up an 8924C for Duplexer Tuning

Yahoo group: hp8924
Date: 2012-10-24 12:25:29 UTC
From: Tony Brignole
Topic: 1172  Message: 1202

Amen!!!!!!

Couldn't have said it better.

I spent 28 years with Dupont and my group was responsible for writing manuals on how to fabricate Acrylic sheet and Corian. These were aimed at professional installers. I would insist that my guys go to the field and spend a week with an installer so they knew what they were doing and then when the draft of the manual was ready we went back to the field with a new installer and tried to follow the manual exactly. We had some interesting times.

I was a senior mid-level manager and when I needed to clear my head I would go to the field and work with a fabricator/installer for several days. I was working in Spartanburg SC one morning in the summer in the thermoforming room with the Kohler crew around 6 am. I had taken off my usual business suit and was in slacks and a T shirt when the plant manager and some of the corporate guys came throught. The wanted to know who I was and were incredulous as they apparently had never had a supplier manager or vendor in the 120 F thermoforming room working with their crew. Kohler substiantly increased their purchases from us and we remained a major suppier to them for many years. Later when Kohler bought Neomidian I had a personal request to give Kohler corporate a report on the state of the thermoforming technology.

----- Original Message -----
From: wb6dgn_tom@...
To: hp8924@yahoogroups.com
Sent: Tuesday, October 23, 2012 11:20 PM
Subject: [hp8924] Re: Setting Up an 8924C for Duplexer Tuning

Just a "for what its worth".
I've owned and used HP test equipment since the early '60s beginning with a modified 5532A frequency counter and then a 5245L, 500Mc. counter among others. One thing that has always stood out in my observation of HP gear is that the manuals supplied with the equipment have always been very cryptic and difficult to understand. Its as if the manuals were prepared, not by tech. writers, but by the engineers who designed the equipment themselves (don't know whether that is true or not but seems that way). The assumption is very clear that the user is totally familiar with the application and uses of the equipment even before opening the box. Perhaps this is so because their equipment was rarely sold to individuals or small shops but, rather, to large organizations who (1) could afford the equipment and (2) could afford to organize and supply the requisite training to go with the equipment.
I, personally, was fortunate in having a friend who was an HP engineer working in the test equipment division who not only made me aware of the appropriate product for my needs but supplied the necessary "education" in its proper use and, in the case of the 5532, even supplied modification information to extend its frequency range considerably beyond its design specs. As a result, my experience was a little bit more "streamlined" than some others.
I have, however, experienced this problem with the 8924 even though I sorta know what to expect from the manuals and the instrument. (Anybody remember HP's calculators? The RPN

notation? Another example of what I am trying to convey.)
That said, after spending a dozen hours or so with my 8924, I wouldn't trade it for the world. As with anything HP, it will pay back my investment in time with capability and accuracy only dreamt about by the competition. Of course YMMV.
Tom

--- In hp8924@yahoogroups.com, "Tony Brignole" <abrigno@...> wrote:
>
> Sorry about the profanity guys!!!
>
> Thought I was sending to Bob off list and hit wrong button.
>
> Have sent PDF copy of 8920B Applications manual that I have. I had Office Depot Print it out for me so I have paper copy to reference. The several manuals I have in PDF printed out at nearly a 1000 pages.
>
> Most aren't very helpfull. As many of you have pointed out it there is no "silver bullet" and a lot of background knowledge is required. It's like trying to tell someone how to fly a new plane if they have never been a pilot.
>
> The bottom line is I love my 8924C and Eagle RLB1000 and can't remember how I got along without them.
>
> ----- Original Message -----
> From: Bob - AF6D
> To: hp8924@yahoogroups.com
> Sent: Monday, October 22, 2012 6:47 PM
> Subject: [hp8924] Re: Setting Up an 8924C for Duplexer Tuning
>
>
>
> bob at af6d.com
>
> --- In hp8924@yahoogroups.com, "Bob - AF6D" <bob@> wrote:
> >
> > AWESOME! I have several 8920 manuals and they are all different. You may send to me at bob@ and many thanks!!!
> >
> > --- In hp8924@yahoogroups.com, "Tony Brignole" <abrigno@> wrote:
> > >
> > > See page 207 of the HP8920A & B manual HP part no. 08920-90126 dated April 1996 Rev C.
> > >
> > > Page 205 says that the tracking generator output is provided at either the front panel RF IN/Out or the Duplex Out Connector. [obviously you have to select right one in menu]
> > >
> > > page 206 under Basic Measurements with the Tracking Generator item 1. "Connect the signal input to the RF IN/OUT or the Duplex Out Connector".
> > >
> > > On several subsequent pages it shows examples where the output is from the Duplex out

and the input is to the Antenna In on the HP 8920.
> > >
> > > Some of the guys that are "super knowledgable" may want to drop HP a line and point out the errors in the manual.
> > >
> > > I have a PDF of the applications manual and can email it to you but it is best off list as it is over 3 meg and will take awhile.
> > >
> > > Contact me at abrigno@
> > >
> > > ----- Original Message -----
> > > From: Bob - AF6D
> > > To: hp8924@yahoogroups.com
> > > Sent: Monday, October 22, 2012 6:08 PM
> > > Subject: [hp8924] Re: Setting Up an 8924C for Duplexer Tuning
> > >
> > >
> > >
> > > I again apologize but the copy Amtronix has sent me several times does not have a link to an 8920 application note. I really am just a new guy trying to learn and have a whole bunch of people telling me different ways to do things, it jumbles in my head, and when I can't make sense of it they think I'm not doing as asked. I have not been told until now that I use the RF port and the Antenna port. I will try that right away. Thank you for your time.
> > >
> > > --- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@> wrote:
> > > >
> > > > Bob,
> > > > You do not normally use the Duplex port of the 892#x for tuning duplexers. You use the RF out and Antenna ports.
> > > > If you look at the Amtronix "IFR" link that you derided you will se that it contains a hot link to a 8920 appliction note.
> > > > Â
> > > > Robert G8RPI.
> > > >
> > > >
> > > > _____
> > > > From: Bob - AF6D <bob@>
> > > > To: hp8924@yahoogroups.com
> > > > Sent: Sunday, 21 October 2012, 18:18
> > > > Subject: [hp8924] Setting Up an 8924C for Duplexer Tuning
> > > >
> > > > Â
> > > > I am guessing as I do this with my head filled by other hams saying do this; no do THIS. Please help.
> > > >
> > > > How do I setup the Duplex page of the 8924X and then the Spec Anl screen to tune a duplexer (WaCom WP-642).
> > > >
> > > > I am assuming that Duplex out goes to my Ant In on the duplexer and the end ofg the cans goes to the RF In???

> > > >
> > >
> >
>

# 1203. Re: Setting Up an 8924C for Duplexer Tuning

Yahoo group: hp8924
Date: 2012-10-24 17:49:32 UTC
From: jyelmgren
Topic: 1172  Message: 1203

Interested in why use a return loss bridge to tune a duplexer or cavity ?

Just seems really unnecessary when you can just hook on the to the output port and directly measure the insertion and rejection losses.

Maybe I am missing something but have done very complex combiner and duplexer configurations with just the basic Service Monitors.

Really boils down to getting the least amount of de-sense with the minimum insertion losses

--- In hp8924@yahoogroups.com, "mojoehand" <mojoehand@...> wrote:
>
>
>
> http://www.amtronix.com/duplexertuning.htm
>
> Joe
>
> --- In hp8924@yahoogroups.com, "Bob - AF6D" <bob@> wrote:
> >
> > I am guessing as I do this with my head filled by other hams saying do this; no do THIS. Please help.
> >
> > How do I setup the Duplex page of the 8924X and then the Spec Anl screen to tune a duplexer (WaCom WP-642).
> >
> > I am assuming that Duplex out goes to my Ant In on the duplexer and the end ofg the cans goes to the RF In???
> >
>

# 1204. Re: [hp8924] Re: Setting Up an 8924C for Duplexer Tuning

Yahoo group: hp8924
Date: 2012-10-24 17:58:12 UTC
From: David Cameron (IRLP)
Topic: 1172  Message: 1204

An RLB allows you to fine tune the pass portion much better than with the service monitor alone. It provides a nice tight notch to tune to, rather than a relatively vague peak.

If you ever tune with an RLB, you will notice (95% of the time) that the amount of power lost in a cavity (insertion loss) is less than if tuned with the service monitor alone. I can't explain it, but it is true.

For anyone that dares to tune under power, you will notice that there is always a little more sensitivity or power you can squeeze from fine tuning a cavity even if it is tuned perfectly. This power I find does not increase at all if an RLB is used to tune the same cavity.

There is nothing wrong with using a service monitor by itself. You just get magnitudes more resolution with an RLB when tuning for minimum insertion loss.

The same is true for the opposite - An RLB CAN tune a notch, but the service monitor gives you a much better representation of the notch than trying to peak the output through an RLB.

Dave Cameron
VE7LTD

On 24/10/2012 10:49 AM, jyelmgren wrote:
> Interested in why use a return loss bridge to tune a duplexer or cavity ?
>
> Just seems really unnecessary when you can just hook on the to the output port and directly measure the insertion and rejection losses.
>
> Maybe I am missing something but have done very complex combiner and duplexer configurations with just the basic Service Monitors.
>
> Really boils down to getting the least amount of de-sense with the minimum insertion losses
>
> --- In hp8924@yahoogroups.com, "mojoehand" <mojoehand@...> wrote:
>>
>>
>>
>> http://www.amtronix.com/duplexertuning.htm
>>
>> Joe
>>
>> --- In hp8924@yahoogroups.com, "Bob - AF6D" <bob@> wrote:
>>>

>>> I am guessing as I do this with my head filled by other hams saying do this; no do THIS. Please help.
>>>
>>> How do I setup the Duplex page of the 8924X and then the Spec Anl screen to tune a duplexer (WaCom WP-642).
>>>
>>> I am assuming that Duplex out goes to my Ant In on the duplexer and the end ofg the cans goes to the RF In???
>>>
>>
>
>
>

# 1205. RE: [hp8924] Re: Setting Up an 8924C for Duplexer Tuning

Yahoo group: hp8924
Date: 2012-10-24 18:17:57 UTC
From: Brian Swann
Topic: 1172  Message: 1205

The simple answer is you will be optimizing the return loss (aka: VSWR) of the cavity by tuning with the RLB. If you are tuning using the insertion loss method, you will not know what impedence the cavity is reflecting back to the transmitter or receiver.

You could test by inserting a FWD/REF power meter in line after you tune and keying the transmitter, but you can't really tune under power to optimize. You would have to move it a little, and test, move it more and test, etc.

Take a look at this video (produced by a very handsome HAM :) )
Return Loss Bridge Basics

Brian
n1bs

To: hp8924@yahoogroups.com
From: jyelmgren@...
Date: Wed, 24 Oct 2012 17:49:32 +0000
Subject: [hp8924] Re: Setting Up an 8924C for Duplexer Tuning

Interested in why use a return loss bridge to tune a duplexer or cavity ?

Just seems really unnecessary when you can just hook on the to the output port and directly measure the insertion and rejection losses.

Maybe I am missing something but have done very complex combiner and duplexer configurations with just the basic Service Monitors.

Really boils down to getting the least amount of de-sense with the minimum insertion losses

# 1206. Re: [hp8924] RF Tools

Yahoo group: hp8924
Date: 2012-10-25 06:19:37 UTC
From: Robert Atkinson
Topic: 1199  Message: 1206

Hi,
This might also be a memory issue. To run NA FM tests on a 8920A you need a optional 512K RAM expansion. I don't know how much free RAM a 8924C has.

Robert.

---
From: MICHAEL SMITH <kb8wlw@...>
To: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
Sent: Wednesday, 24 October 2012, 1:07
Subject: [hp8924] RF Tools

I have been playing with the RF Tools and when I load the "North American FM Test" (NA_FM) I get this error:

Error 18 in 1356 String ovfl. or substring err

Any ideas?  Is it a problem with the PCMCIA card or data? Or a problem with the 8924C?  Or operator error. Everything else loads fine.
Sent from my iPhone 5

Mike / KB8WLW

# 1207. Re: [hp8924] Re: Setting Up an 8924C for Duplexer Tuning

Yahoo group: hp8924
Date: 2012-10-25 10:08:04 UTC
From: Ralph Mowery
Topic: 1172  Message: 1207

This youtube vidio explains it well.

http://www.youtube.com/watch?v=ghJHPX9f5aE

Mainly it seems to be more precise.  Tuning a duplexer for maximan signal works well and many are tuned that way.  Often you can turn the adjustment screw a turn or two and not see too much differance in the pass loss.  The RLB will show up with jjust a half turn or so.

The RLB is just a SWR measurment that can be done with very low power.

--- On Wed, 10/24/12, jyelmgren <jyelmgren@...> wrote:

From: jyelmgren <jyelmgren@...>
Subject: [hp8924] Re: Setting Up an 8924C for Duplexer Tuning
To: hp8924@yahoogroups.com
Date: Wednesday, October 24, 2012, 1:49 PM

Interested in why use a return loss bridge to tune a duplexer or cavity ?

Just seems really unnecessary when you can just hook on the to the output port and directly measure the insertion and rejection losses.

Maybe I am missing something but have done very complex combiner and duplexer configurations  with just the basic Service Monitors.

Really boils down to getting the least amount of de-sense with the minimum insertion losses

---

# 1208. Re: [hp8924] RF Tools

Yahoo group: hp8924
Date: 2012-10-26 17:05:41 UTC
From: Ralph Mowery
Topic: 1199  Message: 1208

I do not recall the error, but I was getting an error on the FMNA program on a 8924c.  By edditing out a line , the program would load and start to run,but would lock up or something.  From that I doubt it is a memory problem in my 8924c.

--- On Thu, 10/25/12, Robert Atkinson <robert8rpi@...> wrote:

From: Robert Atkinson <robert8rpi@...>
Subject: Re: [hp8924] RF Tools
To: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
Date: Thursday, October 25, 2012, 2:19 AM

Hi,
This might also be a memory issue. To run NA FM tests on a 8920A you need a optional 512K RAM expansion. I don't know how much free RAM a 8924C has.

Robert.

# 1209. AF GEN1 Not working

Yahoo group: hp8924
Date: 2012-10-27 03:48:44 UTC
From: cj7124
Topic: 1209  Message: 1209

I have a 8924C that the AF Gen 1 does not appear to be working. The AF Gen 2 is working. Other than the obvious way of turning the AF Gen 1 off/on on the RX Test screen, is there some other setting that would cause the AF Gen 1 not to operate? It does not modulate on FM nor is there a signal on the AUDIO OUT jack when that is selected.

# 1210. Re: AF GEN1 Not working

Yahoo group: hp8924
Date: 2012-10-28 02:31:40 UTC
From: Ralph
Topic: 1209  Message: 1210

It can also be set for AM. If you go to the RX test screen, what are the leters in the AG GEN1 spot ? It should tell where it is connected to. It should be going to the same place (FM) that AF Gen 2 is going if you are testing FM.

--- In hp8924@yahoogroups.com, "cj7124" <pvott12@...> wrote:
>
> I have a 8924C that the AF Gen 1 does not appear to be working. The AF Gen 2 is working. Other than the obvious way of turning the AF Gen 1 off/on on the RX Test screen, is there some other setting that would cause the AF Gen 1 not to operate? It does not modulate on FM nor is there a signal on the AUDIO OUT jack when that is selected.
>

# 1211. Re: Measure signal levels in dbm?

Yahoo group: hp8924
Date: 2012-11-04 04:13:58 UTC
From: jistabout
Topic: 1155  Message: 1211

Thanks fellows for the replies. Ralph, you are right on. I finally found a quick mention of this in the 8920A manual and it says to measure very small signals using the spectrum analyzer & marker as you suggest. I had thought of it too but hoped for a more direct readout perhaps on the RF analyzer screen. But no matter as it still gets the job done. Thanks again!

- Darrell/KA7BTV

# 1212. 8920B mechanical attenuator module

Yahoo group: hp8924
Date: 2012-11-10 16:49:51 UTC
From: g4tkr
Topic: 1212  Message: 1212

Can anyone help with a circuit diagram for the 8920B mechanical attenuator module....Thanks....Don

# 1213. Re: 8920B mechanical attenuator module

Yahoo group: hp8924
Date: 2012-11-11 19:39:14 UTC
From: c_day_nz
Topic: 1212  Message: 1213

The agilent website has circuit level details on the 8920 series - think they may have also been posted to the group file section. Pretty sure the attenuator for 8920A, 8920B and some versions of the 8924C were the same. From memory, the circuits show both the electronic (PIN Diode) & mechanical (relay) attenuators. About 4 different ones I think. 73s de Chris ZL1CVD

# 1214. 82357B HBIB-USB Adaptor for RF Tools

Yahoo group: hp8924
Date: 2012-11-11 22:46:36 UTC
From: rfiemiguy
Topic: 1214  Message: 1214

Can anyone advise a cheap source for an 82357B HBIB-USB Adapter or a clone KNOWN to be compatible with RF Tools?

# 1215. Re: 8920B mechanical attenuator module

Yahoo group: hp8924
Date: 2012-11-12 03:42:03 UTC
From: rfiemiguy
Topic: 1212  Message: 1215

Check your inbox Don.

--- In hp8924@yahoogroups.com, "g4tkr" <dong4tkr@...> wrote:
>
> Can anyone help with a circuit diagram for the 8920B mechanical attenuator module....Thanks....Don
>

# 1216. Re: 82357B HBIB-USB Adaptor for RF Tools

Yahoo group: hp8924
Date: 2012-11-12 06:42:49 UTC
From: mojoehand
Topic: 1214  Message: 1216

I don't know how cheap you want, but have you checked ebay? Looks like NIB for $200 from several sellers.

Joe

--- In hp8924@yahoogroups.com, "rfiemiguy" <rhyolite@...> wrote:
>
> Can anyone advise a cheap source for an 82357B HBIB-USB Adapter or a clone KNOWN to be compatible with RF Tools?
>

# 1217. Screen brilliance

Yahoo group: hp8924
Date: 2012-11-18 17:16:52 UTC
From: Doug
Topic: 1217  Message: 1217

How do you turn down the screen brilliance ?? My appears to full up
and I would like to reduce it. I did go into the service directory
and found the horizontal and vertical stuff but nothing on the screen.

Thanks
Doug VE5DA

# 1218. RE: [hp8924] Screen brilliance

Yahoo group: hp8924
Date: 2012-11-18 17:28:26 UTC
From: Mike (WM4B)
Topic: 1217  Message: 1218

Doug,

Shift - Config - Intensity

73,

Mike

WM4B

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Doug
Sent: Sunday, November 18, 2012 12:17 PM
To: hp8924@yahoogroups.com
Subject: [hp8924] Screen brilliance

How do you turn down the screen brilliance ?? My appears to full up
and I would like to reduce it. I did go into the service directory
and found the horizontal and vertical stuff but nothing on the screen.

Thanks
Doug VE5DA

# 1219. RE: [hp8924] Screen brilliance

Yahoo group: hp8924
Date: 2012-11-18 18:26:38 UTC
From: Doug
Topic: 1217  Message: 1219

At 11:28 AM 18/11/2012, you wrote:

>Doug,
>
>Shift ☐ Config ☐ Intensity
>
---
Thanks Mike. looks easy enough!!

73
Doug VE5DA

# 1220. Frequency Agile Marker??

Yahoo group: hp8924
Date: 2012-11-23 19:00:07 UTC
From: Doug
Topic: 1220  Message: 1220

Is it possible to set up a frequency agile marker while in the
spectrum analyzer
screen?? If so how is it done.. I could find no reference to it in the 8920
manual. Sure would be handy..

Thanks
Doug VE5DA

# 1221. Re: [hp8924] Frequency Agile Marker??

Yahoo group: hp8924
Date: 2012-11-25 14:45:19 UTC
From: Robert Atkinson
Topic: 1220  Message: 1221

Hi Doug,
"Marker to" in the marker control field on the SA screen will set the marker to the highest peak, next highest, center freq or ref level.
This is pretty agile, or do you have something else in mind?

Robert G8RPI.

---
From: Doug <appld@...>
To: hp8924@yahoogroups.com
Sent: Friday, 23 November 2012, 19:00
Subject: [hp8924] Frequency Agile Marker??

Is it possible to set up a frequency agile marker while in the
spectrum analyzer
screen?? If so how is it done.. I could find no reference to it in the 8920
manual. Sure would be handy..

Thanks
Doug VE5DA

# 1222. Re: [hp8924] Frequency Agile Marker??

Yahoo group: hp8924
Date: 2012-11-25 17:40:21 UTC
From: Doug
Topic: 1220  Message: 1222

At 08:45 AM 25/11/2012, you wrote:

>Hi Doug,
>"Marker to" in the marker control field on the SA screen will set
>the marker to the highest peak, next highest, center freq or ref level.
>This is pretty agile, or do you have something else in mind?
>
>Robert G8RPI.
---
Hi Robert. Just getting into the 8924c. Lots of fun and time.... -19C
here today.. I am used to the old sweep gennies
we used on the old microwave systems where I could put the marker
anywhere I wanted. Either that or we could
add markers. Any Lab type instrument that I used years ago just can't
hold a candle to this one. But I do miss
having a frequency agile marker I can place anywhere. I use this
along with my MiniVNA and they do complement
on another....

Thanks

Doug VE5DA

# 1223. Re: [hp8924] Frequency Agile Marker??

Yahoo group: hp8924
Date: 2012-11-25 21:05:10 UTC
From: Ralph Mowery
Topic: 1220  Message: 1223

I must be missing something in this question.  If you go to the marker screen and use the position setting , you can set the marker anywhere.  By using the keys over the round knob you can set it to how much to increment the setting each time you turn the knob.  Is that not what you want to do ?

It would be nice to have atleast two markers.

--- On Sun, 11/25/12, Doug <appld@...> wrote:

From: Doug <appld@...>
Subject: Re: [hp8924] Frequency Agile Marker??
To: hp8924@yahoogroups.com
Date: Sunday, November 25, 2012, 12:40 PM

---
Hi Robert. Just getting into the 8924c. Lots of fun and time.... -19C
here today.. I am used to the old sweep gennies
we used on the old microwave systems where I could put the marker
anywhere I wanted. Either that or we could
add markers. Any Lab type instrument that I used years ago just can't
hold a candle to this one. But I do miss
having a frequency agile marker I can place anywhere. I use this
along with my MiniVNA and they do complement
on another....

Thanks

Doug VE5DA

# 1224. Re: [hp8924] Frequency Agile Marker??

Yahoo group: hp8924
Date: 2012-11-25 21:45:25 UTC
From: Doug
Topic: 1220  Message: 1224

At 03:05 PM 25/11/2012, you wrote:

>I must be missing something in this question. If you go to the
>marker screen and use the position setting , you can set the marker
>anywhere. By using the keys over the round knob you can set it to
>how much to increment the setting each time you turn the knob. Is
>that not what you want to do ?
>
>
>It would be nice to have atleast two markers.
---
Thanks Ralph I think I got it. I was able to go to position and move
it around just like I want to..
Two markers would be great and three even better. I have a small
Micor repeater in the basement made from old junk.
The only thing new was the controller I put on it years ago. I like
to experiment with filters etc and the sa
is a tool I always wanted. Redid the duplexer yesterday and it worked
great when I was finished. Still have a
lot to learn about the 8924c. When I feel more comfortable with the
controls, I will start using RF TOOLS.
By the time Iam finished, I probably will wear the threads on the
type N connectors off!! The cavities were
either old Sinclair bp or reject out of old ring hybrid duplexers
modified with reject loops.

Thanks, another step forward.

Doug VE5DA

# 1225. Re: [hp8924] Frequency Agile Marker??

Yahoo group: hp8924
Date: 2012-11-25 22:10:49 UTC
From: James H Vernetti
Topic: 1220  Message: 1225

I have a 8924c and one of those old duplexers, would you care to share how you built the reject loops? Did you reuse the sliding Caps?
73 Jim wd0ekr
----- Original Message -----
From: Doug<mailto:appld@...>
To: hp8924@yahoogroups.com<mailto:hp8924@yahoogroups.com>
Sent: Sunday, November 25, 2012 2:45 PM
Subject: Re: [hp8924] Frequency Agile Marker??

At 03:05 PM 25/11/2012, you wrote:

>I must be missing something in this question. If you go to the
>marker screen and use the position setting , you can set the marker
>anywhere. By using the keys over the round knob you can set it to
>how much to increment the setting each time you turn the knob. Is
>that not what you want to do ?
>
>
>It would be nice to have atleast two markers.
---
Thanks Ralph I think I got it. I was able to go to position and move
it around just like I want to..
Two markers would be great and three even better. I have a small
Micor repeater in the basement made from old junk.
The only thing new was the controller I put on it years ago. I like
to experiment with filters etc and the sa
is a tool I always wanted. Redid the duplexer yesterday and it worked
great when I was finished. Still have a
lot to learn about the 8924c. When I feel more comfortable with the
controls, I will start using RF TOOLS.
By the time Iam finished, I probably will wear the threads on the
type N connectors off!! The cavities were
either old Sinclair bp or reject out of old ring hybrid duplexers
modified with reject loops.

Thanks, another step forward.

Doug VE5DA

# 1226. Re: [hp8924] Frequency Agile Marker??

Yahoo group: hp8924
Date: 2012-11-25 22:13:48 UTC
From: Ralph Mowery
Topic: 1220  Message: 1226

Glad that helped you .

For the duplexers, are you playing around with a return loss bridge ?  This is mainly a SWR meter when used to adjust the pass part of a band pass /band reject  type duplexer.
I have found a Mini-Circuits ZFDC-20-5 works well for adjusting the duplexers and is priced way under the other ones.

For most things the RF Tools that HP/Agilent puts out is not too much use.  There is one thing that measuers the distance to a fault that can come in handy.

That 8924c does so much and I have not seen a good manual for it.  As many have mentioned the one for the 8920 is close, but you have to convert some of the buttons from one to the other  and is confusing at times.

If one has a good understnding of test sets and the results you should expect to see, you can press buttons and see what hapens.  If this is the first good test set that you have ever played with, it can be a real pain to learn.

I do not work on radios for a living, but did work for a company as an instrument technician.  Got to play around with many differant test sets for general plant instrumentation.  By knowing how many of them work, it gave me a good insite into how to play around with the 8924.

I bought the 8924 to set up a couple of ham repeaters and also to play around with at home.  It seemed to be the cheapest set that I could find that had the spectrum analizer and tracking generator.
Before that I was using a Singer FM20 and some older analog signal generators like the one in he old GE Mastr ll manual.

de KU4PT

--- On Sun, 11/25/12, Doug <appld@...> wrote:

From: Doug <appld@...>
Subject: Re: [hp8924] Frequency Agile Marker??
To: hp8924@yahoogroups.com
Date: Sunday, November 25, 2012, 4:45 PM

At 03:05 PM 25/11/2012, you wrote:

>Thanks Ralph I think I got it. I was able to go to  position and move
it around just like I want to..
Two markers would be great and three even better. I have a small
Micor repeater in the basement made from old junk.
The only thing new was the controller I put on it years ago. I like
to experiment with filters etc and the sa
is a tool I always wanted. Redid the duplexer yesterday and it worked
great when I was finished. Still have a

lot to learn about the 8924c. When I feel more comfortable with the controls, I will start using RF TOOLS.
By the time Iam finished, I probably will wear the threads on the type N connectors off!! The cavities were
either old Sinclair bp or reject out of old ring hybrid duplexers modified with reject loops.

Thanks, another step forward.

Doug VE5DA

# 1227. Re: [hp8924] Frequency Agile Marker??

Yahoo group: hp8924
Date: 2012-11-25 22:54:12 UTC
From: Doug
Topic: 1220 Message: 1227

At 04:10 PM 25/11/2012, you wrote:

>I have a 8924c and one of those old duplexers, would you care to
>share how you built the reject loops? Did you reuse the sliding Caps?
>73 Jim wd0ekr
>----------

Hello Jim. They are quite easily done.I have used a variety of
capacitors, from small air type ceramics, Microwave
piston and the best, Johanson (sp??) piston. These are the same caps
that Sinclair used in the more modern
duplexers. I was able to pick up a few at Dayton a number of years
ago. Found out that if you can get hold of
a scrap dual port isolator, they have a few of the 30pf units in
them. I have made the loops out of just
about any kind of solid copper wire you can get a hold of. Bare or
otherwise. Also strips of hobby brass that
you can buy at a model airplane shop. I experimented with the loop
size and also there was an article by
a club in Ottawa Ont. that was on the net I think. That was a long
time ago. The other thing to do is undo
the cold end of the present loop and insert the trimmer cap. Grid dip
it and it should tell you if it might
work. Originally I made cavities up to isolate the packet from the
repeaters. Then on to make a duplexer.
One of the things I noticed yesterday was that a pass cavity between
the tx and rx ports spaced a little
less then a quarter wave improved the rejection by a good 5db. I had
these on originally with a half wave
spacing and wasn't happy with the results. If you go on the net and
google ve2azx you should find one of
the better articles on cavities that I have read.

By the way, a friend of mine and I re did a hybrid ring duplexer from
the 150mhz band to the ham band
in a CATV test lab. Using linear catv amps to extend the range of the
textronic equipment we were using.
It was excellent. We ended up soldering all the cable junctions
together to improve rejection etc. Also,
I resized all the cables the hard way. No crimp!! That was about 40
years ago. Duplexers were hard to come
by.

With the tuned loop Jim you do not need the sliding caps.

Give it a try Jim, it is very interesting and can be very rewarding..

73
Doug VE5DA

# 1228. Re: [hp8924] Frequency Agile Marker??

Yahoo group: hp8924
Date: 2012-11-25 23:16:52 UTC
From: Doug
Topic: 1220  Message: 1228

At 04:13 PM 25/11/2012, you wrote:

>Glad that helped you .
>
>For the duplexers, are you playing around with a return loss bridge
>? This is mainly a SWR meter when used to adjust the pass part of a
>band pass /band reject type duplexer.
>I have found a Mini-Circuits ZFDC-20-5 works well for adjusting the
>duplexers and is priced way under the other ones.
>
>For most things the RF Tools that HP/Agilent puts out is not too
>much use. There is one thing that measuers the distance to a fault
>that can come in handy.
>
>That 8924c does so much and I have not seen a good manual for
>it. As many have mentioned the one for the 8920 is close, but you
>have to convert some of the buttons from one to the other and is
>confusing at times.
>
>If one has a good understnding of test sets and the results you
>should expect to see, you can press buttons and see what hapens. If
>this is the first good test set that you have ever played with, it
>can be a real pain to learn.
>
>I do not work on radios for a living, but did work for a company as
>an instrument technician. Got to play around with many differant
>test sets for general plant instrumentation. By knowing how many of
>them work, it gave me a good insite into how to play around with the 8924.
>
>I bought the 8924 to set up a couple of ham repeaters and also to
>play around with at home. It seemed to be the cheapest set that I
>could find that had the spectrum analizer and tracking generator.
>Before that I was using a Singer FM20 and some older analog signal
>generators like the one in he old GE Mastr ll manual.
>
>de KU4PT
>
---
I got to use a lot of the old stuff but as one moves up in a union
shop one doesn't get to touch the new stuff. You
budget for it but you don't touch. Since I retired 20 years ago, I
have been slowly trying to get some of the new stuff.
I have had the gertsch (sp) fm3, fm10 and also a Marconi 1066b also
an 80r. I do have a hp dual trace 50mhz storage
scope I picked up a number of years ago.. I also have a senger fm10c

which I have been using for a few years. The only new
stuff I was able to get into was the Microwave Link Analyzer. Nice
test set don't know how ever operated with out them.
And a few HP400

I am looking for a return loss bridge now. I think that will be my
next purchase. I remember doing IF return loss years
ago and when I look at this application it is very similar, just
different stuff. The results would be the same. I use
HP400el type voltmeters for noise quieting tests. Most of the stuff
was surplus to the telephone company as they moved
into the digital world. Using the SA takes a lot of the quess work
out of tuning. You can still do it without as long as
you test, test, and test. You can get the same results.

73
Doug VE5DA

# 1229. Re: HP 8920

Yahoo group: hp8924
Date: 2012-11-26 19:59:45 UTC
From: Ralph S. Turk
Topic: 1220  Message: 1229

Hi All

My 8920 just died. I suspect the power supply. No Fan, No lights, No anything. Does anyone have power supply test information and possible a schematic and layout.

Thanks
Ralph, W7HSG

# 1230. Re: [hp8924] Re: HP 8920

Yahoo group: hp8924
Date: 2012-11-26 20:02:34 UTC
From: David Cameron
Topic: 1220  Message: 1230

Have you tries to power it through DC? Are you sure the AC/DC switch is not flaky?

Don't have info beyond that. I thought mine was dead once, but I just accidentally flipped the AC/DC switch.

Dave Cameron
VE7LTD

---
David Cameron - VE7LTD
IRLP System Designer - http://www.irlp.net

-----Original Message-----
From: "Ralph S. Turk" <w7hsg@comcast.net>
Sender: hp8924@yahoogroups.com
Date: Mon, 26 Nov 2012 19:59:45
To: <hp8924@yahoogroups.com>
Reply-To: hp8924@yahoogroups.com
Subject: [hp8924] Re: HP 8920

Hi All

My 8920 just died. I suspect the power supply. No Fan, No lights, No anything.
Does anyone have power supply test information and possible a schematic and layout.

Thanks
Ralph, W7HSG

# 1231. Re: HP 8920

Yahoo group: hp8924
Date: 2012-11-27 00:41:50 UTC
From: rf.gra1
Topic: 1220  Message: 1231

Ralph, if your AC/DC key is OK, maybe the problem is the 470K resistor near of panel and keys, on the primary supply. Normally it is open... You should to check it. (I don´t remember but I think that you should have care because maybe a one side is with high voltage...)

(gudi luqui)

gabriel

--- In hp8924@yahoogroups.com, "Ralph S. Turk" <w7hsg@...> wrote:
>
> Hi All
>
>
> My 8920 just died. I suspect the power supply. No Fan, No lights, No anything.
> Does anyone have power supply test information and possible a schematic and
> layout.
>
>
> Thanks
> Ralph, W7HSG
>

# 1232. Re: [hp8924] Re: HP 8920 Not 8924

Yahoo group: hp8924
Date: 2012-11-27 16:14:31 UTC
From: Ralph S. Turk
Topic: 1220  Message: 1232

Good morning, afternoon or whatever.
The DC connection fires up the 8920 fine. Now
all I need is a diagram of the power supply or at
least a block diagram of the power supply. It seems
that the is Not a led light in the rear like the 8924.
I am told that the 8924 and 8935 supplies are similar
but so far no luck in finding a diagram or block
Ralph, W7HSG

----- Original Message -----
From: "rf.gra1" <gravila@...>
To: hp8924@yahoogroups.com
Sent: Monday, November 26, 2012 5:41:50 PM
Subject: [hp8924] Re: HP 8920

Ralph, if your AC/DC key is OK, maybe the problem is the 470K resistor near of panel and keys, on the primary supply. Normally it is open... You should to check it. (I don´t remember but I think that you should have care because maybe a one side is with high voltage...)

(gudi luqui)

gabriel

--- In hp8924@yahoogroups.com , "Ralph S. Turk" <w7hsg@...> wrote:
>
> Hi All
>
>
> My 8920 just died. I suspect the power supply. No Fan, No lights, No anything.
> Does anyone have power supply test information and possible a schematic and
> layout.
>
>
> Thanks
> Ralph, W7HSG
>

# 1233. RE: [hp8924] Re: HP 8920 Not 8924

Yahoo group: hp8924
Date: 2012-11-27 17:21:55 UTC
From: John Stuart
Topic: 1220  Message: 1233

I found the following HP8920 service files that I had downloaded. Try
Googling for:

1. ☐8920_Component_Level_Information_Packet.pdf☐ (20 MB)
2. ☐Repair hp_8920_a_b_rg.pdf☐ (14 MB)

John Stuart, KM6QX

---

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of
Ralph S. Turk
Sent: Tuesday, November 27, 2012 8:15 AM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Re: HP 8920 Not 8924

Good morning, afternoon or whatever.

The DC connection fires up the 8920 fine. Now

all I need is a diagram of the power supply or at

least a block diagram of the power supply. It seems

that the is Not a led light in the rear like the 8924.

I am told that the 8924 and 8935 supplies are similar

but so far no luck in finding a diagram or block

Ralph, W7HSG

---

From: "rf.gra1" <gravila@...>
To: hp8924@yahoogroups.com
Sent: Monday, November 26, 2012 5:41:50 PM
Subject: [hp8924] Re: HP 8920

Ralph, if your AC/DC key is OK, maybe the problem is the 470K resistor near
of panel and keys, on the primary supply. Normally it is open... You should
to check it. (I don´t remember but I think that you should have care because
maybe a one side is with high voltage...)

(gudi luqui)

gabriel

--- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com> , "Ralph S. Turk" <w7hsg@...> wrote:
>
> Hi All
>
>
> My 8920 just died. I suspect the power supply. No Fan, No lights, No anything.
> Does anyone have power supply test information and possible a schematic and
> layout.
>
>
> Thanks
> Ralph, W7HSG
>

# 1234. RE: [hp8924] Re: HP 8920 Not 8924

Yahoo group: hp8924
Date: 2012-11-27 17:29:26 UTC
From: John Stuart
Topic: 1220  Message: 1234

Links to HP9820 service files:

http://www.home.agilent.com/upload/cmc_upload/All/8920_Component_Level_Information_Packet.pdf?
<http://www.home.agilent.com/upload/cmc_upload/All/8920_Component_Level_Information_Packet.pdf?&cc=US&lc=eng> &cc=US&lc=eng

http://cp.literature.agilent.com/litweb/pdf/08920-90168.pdf

John, KM6QX

---

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of John Stuart
Sent: Tuesday, November 27, 2012 9:22 AM
To: hp8924@yahoogroups.com
Subject: RE: [hp8924] Re: HP 8920 Not 8924

I found the following HP8920 service files that I had downloaded. Try Googling for:

1. □8920_Component_Level_Information_Packet.pdf□ (20 MB)
2. □Repair hp_8920_a_b_rg.pdf□ (14 MB)

John Stuart, KM6QX

---

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Ralph S. Turk
Sent: Tuesday, November 27, 2012 8:15 AM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Re: HP 8920 Not 8924

Good morning, afternoon or whatever.

The DC connection fires up the 8920 fine. Now

all I need is a diagram of the power supply or at

least a block diagram of the power supply. It seems

that the is Not a led light in the rear like the 8924.

I am told that the 8924 and 8935 supplies are similar

but so far no luck in finding a diagram or block

Ralph, W7HSG

---

From: "rf.gra1" <gravila@...>
To: hp8924@yahoogroups.com
Sent: Monday, November 26, 2012 5:41:50 PM
Subject: [hp8924] Re: HP 8920

Ralph, if your AC/DC key is OK, maybe the problem is the 470K resistor near of panel and keys, on the primary supply. Normally it is open... You should to check it. (I don´t remember but I think that you should have care because maybe a one side is with high voltage...)

(gudi luqui)

gabriel

--- In hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com> , "Ralph S. Turk" <w7hsg@...> wrote:
>
> Hi All
>
>
> My 8920 just died. I suspect the power supply. No Fan, No lights, No anything.
> Does anyone have power supply test information and possible a schematic and
> layout.
>
>
> Thanks
> Ralph, W7HSG
>

# 1235. Re: [hp8924] Re: HP 8920 Not 8924

Yahoo group: hp8924
Date: 2012-11-27 19:36:41 UTC
From: Ralph S. Turk
Topic: 1220  Message: 1235

Thanks for the information on finding a
block diagram. Page 467 gives a block of
the power supply.

Removed power supply. Examination reveals that
RT 1 is burned. Now the question, what is RT 1?
Looks like a thermistor. Could be a MOV. But what value and function.
Did it just fail? Lots of questions looking for answers.
Any ideas out there.

Ralph,W7HSG

From: "Ralph S. Turk" <w7hsg@...>
To: hp8924@yahoogroups.com
Sent: Tuesday, November 27, 2012 9:14:31 AM
Subject: Re: [hp8924] Re: HP 8920 Not 8924

Good morning, afternoon or whatever.
The DC connection fires up the 8920 fine. Now
all I need is a diagram of the power supply or at
least a block diagram of the power supply. It seems
that the is Not a led light in the rear like the 8924.
I am told that the 8924 and 8935 supplies are similar
but so far no luck in finding a diagram or block
Ralph, W7HSG

----- Original Message -----
From: "rf.gra1" <gravila@...>
To: hp8924@yahoogroups.com
Sent: Monday, November 26, 2012 5:41:50 PM
Subject: [hp8924] Re: HP 8920

Ralph, if your AC/DC key is OK, maybe the problem is the 470K resistor near of panel and keys, on the primary supply. Normally it is open... You should to check it. (I don´t remember but I think that you should have care because maybe a one side is with high voltage...)

(gudi luqui)

gabriel

--- In hp8924@yahoogroups.com , "Ralph S. Turk" <w7hsg@...> wrote:
>
> Hi All
>
>
> My 8920 just died. I suspect the power supply. No Fan, No lights, No anything.

> Does anyone have power supply test information and possible a schematic and
> layout.
>
>
> Thanks
> Ralph, W7HSG
>

# 1236. Re: [Hp8920] Hp 8920 Power Supply

Yahoo group: hp8924
Date: 2012-11-28 22:17:58 UTC
From: Ralph S. Turk
Topic: 1236  Message: 1236

For Information
I found a company in Texas that will repair the HP 8920A power supply for a flat rate
.The quote is $100 repair. They will also change all the capacitors for a additional
$ 50.oo. Just sent it off so we will see.
Company is: Power Clinic Inc
12901 Nicholson Rd
Dallas Texas 75234
Phone 972-620-9711
Email help@...
Contact Brian Hill

----- Original Message -----
From: "Tom Holmes" <tholmes@...>
To: hp8920@...
Sent: Tuesday, November 27, 2012 4:23:42 PM
Subject: Re: [Hp8920] Hp 8920 Power Supply

I couldn't find anything on the A9 Power Supply module, but did find this
doc on A's web site that does have schematics for many of the other
assemblies. Makes me wonder of the base power supply was a purchased unit
and they didn't have a schematic for it. The closest it comes is that it
does have the A10 regulator module schematic.

My guess is that RT is a Thermistor; maybe used to shut down if air flow
isn't high enough?

Here is the link to that doc...

http://www.home.agilent.com/upload/cmc_upload/All/8920_Component_Level_Infor
mation_Packet.pdf

Tom Holmes, N8ZM
EM79

> -----Original Message-----
> From: hp8920-bounces@... [mailto:hp8920-bounces@...] On
> Behalf Of Ralph S. Turk
> Sent: Tuesday, November 27, 2012 5:22 PM
> To: hp8920@...
> Subject: [Hp8920] Hp 8920 Power Supply
>
>
>
>
> Hi All
> Have a 8920 with a dead power supply
> AC only DC ok.

>
>
> Found a block diagram. Page 467 gives a block of the power supply. Really
need
> a schematic.
>
> Removed power supply. Examination reveals that RT 1 is burned. Now the
> question, what is RT 1?
> Looks like a thermistor. Could be a MOV. But what value and function.
> Did it just fail? Lots of questions looking for answers.
> Any ideas out there.
>
>
> Ralph,W7HSG
>
> _____
> Hp8920 mailing list
> Hp8920@...
> https://www.febo.com/cgi-bin/mailman/listinfo/hp8920

_____
Hp8920 mailing list
Hp8920@...
https://www.febo.com/cgi-bin/mailman/listinfo/hp8920

# 1237. 8924 & E8285 - replace the power supply caps!!

Yahoo group: hp8924
Date: 2012-11-29 21:12:57 UTC
From: c_day_nz
Topic: 1237  Message: 1237

I have repaired a few 8924C & E8285A with a range of faults from unlocked synth's, wandering reference, intermittent power up, no power up, Etc. All have been power supply issues caused in the main by bad electrolytic caps. In E8285 PSUs also check U2 (LM317HVT) which when fails causes no/lo +40v rail & unlocked synths. Once the caps were changed, all other symptoms were cured and they calibrated up perfectly. Replacing the caps is time consuming but well worth the effort. If your paying someone to repair a faulty supply, don't do it unless they will be also changing out the caps or you'll be sending it back in 6/12/24 months. Make sure the caps used are rated for 105C. Also clean the cooling fan/s and remove as much dust as possible from the chassis while you have it open. If its a CRT model and the display is not right (wobbly, brightness/contrast issues, etc), change the display electros. If its a plasma display, replacing the high voltage eletros on the plasma PCB fixes some problems. This advise will also be relevant to the HP / Agilent 8920, 8922 & 8935 series of com test sets. 73s de Chris ZL1CVD.

# 1238. Re: HP 8920 Not 8924

Yahoo group: hp8924
Date: 2012-11-30 14:27:30 UTC
From: jyelmgren
Topic: 1220  Message: 1238

This is a good basic question on switching power supply design ..see below from a manufacturers application note on digikey

"The NTC thermistor can be a cost effective device to
limit the amount of inrush current in a switching power
supply or other devices when the power is first turned
on. For switch-mode power supplies, the large filter
capacitors present in the circuit appear as a short circuit
at turn on. During this period a large amount of current
flows through the circuit until the capacitors have had
time to become fully charged. At that point in time, the
amount of current will have dropped substantially."

What this implies is that the main filter caps are "leaking" and pulling too much current even when charged which will burn out the thermistors over time.

Replace the input filter caps ..sounds like you may have already shipped this out though

--- In hp8924@yahoogroups.com, "Ralph S. Turk" <w7hsg@...> wrote:
>
>
> Thanks for the information on finding a
> block diagram. Page 467 gives a block of
> the power supply.
>
> Removed power supply. Examination reveals that
> RT 1 is burned. Now the question, what is RT 1?
> Looks like a thermistor. Could be a MOV. But what value and function.
> Did it just fail? Lots of questions looking for answers.
> Any ideas out there.
>
>
> Ralph,W7HSG
>
>
>
>
> From: "Ralph S. Turk" <w7hsg@...>
> To: hp8924@yahoogroups.com
> Sent: Tuesday, November 27, 2012 9:14:31 AM
> Subject: Re: [hp8924] Re: HP 8920 Not 8924
>
>
>
>
>

>
>
> Good morning, afternoon or whatever.
> The DC connection fires up the 8920 fine. Now
> all I need is a diagram of the power supply or at
> least a block diagram of the power supply. It seems
> that the is Not a led light in the rear like the 8924.
> I am told that the 8924 and 8935 supplies are similar
> but so far no luck in finding a diagram or block
> Ralph, W7HSG
>
> ----- Original Message -----
> From: "rf.gra1" <gravila@...>
> To: hp8924@yahoogroups.com
> Sent: Monday, November 26, 2012 5:41:50 PM
> Subject: [hp8924] Re: HP 8920
>
>
>
>
>
>
> Ralph, if your AC/DC key is OK, maybe the problem is the 470K resistor near of panel and keys, on the primary supply. Normally it is open... You should to check it. (I donÂ´t remember but I think that you should have care because maybe a one side is with high voltage...)
>
> (gudi luqui)
>
> gabriel
>
> --- In hp8924@yahoogroups.com , "Ralph S. Turk" <w7hsg@> wrote:
> >
> > Hi All
> >
> >
> > My 8920 just died. I suspect the power supply. No Fan, No lights, No anything.
> > Does anyone have power supply test information and possible a schematic and
> > layout.
> >
> >
> > Thanks
> > Ralph, W7HSG
> >
>

# 1239. Re: [hp8924] Re: HP 8920 Not 8924

Yahoo group: hp8924
Date: 2012-11-30 15:31:51 UTC
From: Ralph S. Turk
Topic: 1220  Message: 1239

Yes I have shipped it to Power Clinic. They are going
to calculate the inrush and install the correct Surgesistor
and change all the Caps. They can change the caps at a lower
cost than I. If I knew the correct surge device I would have
changed it and moved on. This way someone who does this
everyday can do the repair.
Thanks for the information.
Ralph

----- Original Message -----
From: "jyelmgren" <jyelmgren@...>
To: hp8924@yahoogroups.com
Sent: Friday, November 30, 2012 7:27:30 AM
Subject: [hp8924] Re: HP 8920 Not 8924

This is a good basic question on switching power supply design ..see below from a
manufacturers application note on digikey

"The NTC thermistor can be a cost effective device to
limit the amount of inrush current in a switching power
supply or other devices when the power is first turned
on. For switch-mode power supplies, the large filter
capacitors present in the circuit appear as a short circuit
at turn on. During this period a large amount of current
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time to become fully charged. At that point in time, the
amount of current will have dropped substantially."

What this implies is that the main filter caps are "leaking" and pulling too much current
even when charged which will burn out the thermistors over time.

Replace the input filter caps ..sounds like you may have already shipped this out though

--- In hp8924@yahoogroups.com , "Ralph S. Turk" <w7hsg@...> wrote:
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> block diagram. Page 467 gives a block of
> the power supply.
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> Removed power supply. Examination reveals that
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> Looks like a thermistor. Could be a MOV. But what value and function.
> Did it just fail? Lots of questions looking for answers.
> Any ideas out there.
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>
> Ralph,W7HSG
>
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> From: "Ralph S. Turk" <w7hsg@...>
> To: hp8924@yahoogroups.com
> Sent: Tuesday, November 27, 2012 9:14:31 AM
> Subject: Re: [hp8924] Re: HP 8920 Not 8924
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> Good morning, afternoon or whatever.
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> I am told that the 8924 and 8935 supplies are similar
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> ----- Original Message -----
> From: "rf.gra1" <gravila@...>
> To: hp8924@yahoogroups.com
> Sent: Monday, November 26, 2012 5:41:50 PM
> Subject: [hp8924] Re: HP 8920
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> Ralph, if your AC/DC key is OK, maybe the problem is the 470K resistor near of panel and keys, on the primary supply. Normally it is open... You should to check it. (I donÂ´t remember but I think that you should have care because maybe a one side is with high voltage...)
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> gabriel
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> --- In hp8924@yahoogroups.com , "Ralph S. Turk" <w7hsg@> wrote:
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> > Hi All
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> > layout.
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> > Thanks
> > Ralph, W7HSG
> >
>

# 1240. Re: HP 8920 Not 8924

Yahoo group: hp8924
Date: 2012-11-30 17:18:32 UTC
From: jyelmgren
Topic: 1220  Message: 1240

Normally you have two thermistors...one in the plus and the other in the negative of the input bridge rectifier output.
Usually only one will burn out completely so that measuring the other one will give you the replacement value.
Not a super critical component value ...close enough should work fine since its main purpose is to just limit the turn on surge.

--- In hp8924@yahoogroups.com, "Ralph S. Turk" <w7hsg@...> wrote:
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> Yes I have shipped it to Power Clinic. They are going
> to calculate the inrush and install the correct Surgesistor
> and change all the Caps. They can change the caps at a lower
> cost than I. If I knew the correct surge device I would have
> changed it and moved on. This way someone who does this
> everyday can do the repair.
> Thanks for the information.
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> ----- Original Message -----
> From: "jyelmgren" <jyelmgren@...>
> To: hp8924@yahoogroups.com
> Sent: Friday, November 30, 2012 7:27:30 AM
> Subject: [hp8924] Re: HP 8920 Not 8924
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> What this implies is that the main filter caps are "leaking" and pulling too much current even when charged which will burn out the thermistors over time.

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# 1241. Re: [hp8924] Re: HP 8920 Not 8924

Yahoo group: hp8924
Date: 2012-11-30 20:34:12 UTC
From: Ralph S. Turk
Topic: 1220  Message: 1241

That was one of the problems. Could not find the other no matter how much I looked. Don't know
if the Hong Kong company "Computer Products" Just didn't use one or what.
Ralph

----- Original Message -----
From: "jyelmgren" <jyelmgren@...>
To: hp8924@yahoogroups.com
Sent: Friday, November 30, 2012 10:18:32 AM
Subject: [hp8924] Re: HP 8920 Not 8924

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Not a super critical component value ...close enough should work fine since its main purpose is to just limit the turn on surge.

--- In hp8924@yahoogroups.com , "Ralph S. Turk" <w7hsg@...> wrote:
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# 1242. Re: [hp8924] Re: HP 8920 Not 8924

Yahoo group: hp8924
Date: 2012-12-01 16:46:32 UTC
From: Robert Atkinson
Topic: 1220  Message: 1242

Hi,
In my experience it'e unusual to find two inrush limiting NTC thermistors in single phase power supplies. There is no reason to use two as they would be in series.

Robert G8RPI.

---
From: Ralph S. Turk <w7hsg@...>
To: hp8924@yahoogroups.com
Sent: Friday, 30 November 2012, 20:34
Subject: Re: [hp8924] Re: HP 8920 Not 8924

That was one of the problems.  Could not find the other no matter how much I looked.  Don't know
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From: "jyelmgren" <jyelmgren@...>To: hp8924@yahoogroups.comSent: Friday, November 30, 2012 10:18:32 AMSubject: [hp8924] Re: HP 8920 Not 8924
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Usually only one will burn out completely so that measuring the other one will give you the replacement value.
Not a super critical component value ...close enough should work fine since its main purpose is to just limit the turn on surge.

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> From: "jyelmgren" <jyelmgren@...>
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> > To: mailto:hp8924%40yahoogroups.com
> > Sent: Monday, November 26, 2012 5:41:50 PM
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# 1243. Re: HP 8920 Not 8924

Yahoo group: hp8924
Date: 2012-12-01 21:32:37 UTC
From: jyelmgren
Topic: 1220  Message: 1243

That's pretty much designer's choice.

Just fixed a R 2001D that popped a thermistor due to leaky caps and it had a dual thermistor design.

Seen them both ways though but it may depend on how they handle the range switching for 100VAC to 200VAC on the input.

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
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> Hi,
> In my experience it'e unusual to find two inrush limiting NTC thermistors in single phase power supplies. There is no reason to use two as they would be in series.Â
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# 1244. HP8924 Uncalibrated Accuracy

Yahoo group: hp8924
Date: 2012-12-10 19:42:13 UTC
From: wb5nfc
Topic: 1244  Message: 1244

I've owned my 8924 for a few years now, but I'm just now getting serious about using it for duplexer tuning and other duties. Mine came via the surplus market, so it was not recalibrated upon purchase. All initial start-up testing is normal, but I'm just wondering if there is a way to ensure accuracy "close enough for amateur work" without a trip to a cal lab?

Thanks.

John / WB5NFC

# 1245. Re: [hp8924] HP8924 Uncalibrated Accuracy

Yahoo group: hp8924
Date: 2012-12-10 20:36:35 UTC
From: Ralph Mowery
Topic: 1244  Message: 1245

Chances are that if it works at all and no one has messed with the calibration, it will be plenty close enough for ham usage.

The frequency is easy to check out.  Hook it to an outside antenna and tune in WWV at 20 or 15 MHZ.  It should read out the frequency to the last place.  Even if it is 2 cps off, that only equates to 20 to 40 hz off at 150 mhz.  I checked the output of several 2 meter repeaters and have found them to be off from a hundred to almost 1000 cps from the nominal frequency.Some that much low to that much high.  So even if my 8924 is off some, that would put atlest some of the repeaters off more that 1000 hz.
I bought one about a year ago and it was not calibrated either.  The 8924 reads out WWV at 20 mhz to the last 0 and it may bounce down once and a while to 19 an all 9s..  There could be that much doppler shift as the signal bounces around.

You may compair the output power to a couple of receivers and see if it is close to what the receivers are rated for.  I have a Motorola generator that is probalbly 40 years old and the output on it compairs very well with the 8924.  That is the old one like some of the GE Mastr ll books have in it.

If you want to  check the FM deviation of the generator part, set it up with the spectrum analizer to look at the output.  Then as you increase the deviation you can see the 'carrier' dissapear.  I think that it is about 2.4 times the audio frequuency where it should dissapear.
Look up Bessel function for a detail on this.

For tuning the duplexers,  all you need is to be close to the frequency.  Most everything else is for maximum or minimum.  When you normilize the 8924 for the loss in a duplexer, this should put it close enough to see if you have too much loss.

There are some more self checks you can make from the various menues in the 8924.

Unless you find someone that has a service monitor that just came back from a calibration lab, the 8924 is probably more accurate than most of the service monitors in use even if it has not been calibrated in years.

The good thing about the ham bands is that you only have to be somewhere in the band to be legal. Not that you would not want to be as close as you can.

--- On Mon, 12/10/12, wb5nfc <wb5nfc@...> wrote:

From: wb5nfc <wb5nfc@...>
Subject: [hp8924] HP8924 Uncalibrated Accuracy
To: hp8924@yahoogroups.com
Date: Monday, December 10, 2012, 2:42 PM

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if there is a way to ensure accuracy "close enough for amateur work" without a trip to a cal lab?

Thanks.

John / WB5NFC

# 1246. Re: [hp8924] HP8924 Uncalibrated Accuracy

Yahoo group: hp8924
Date: 2012-12-11 00:37:01 UTC
From: John (WB5NFC)
Topic: 1244  Message: 1246

Thank you, Ralph. Just the sort of information I was hoping for.

John / WB5NFC

_____
From: Ralph Mowery <ku4pt@yahoo.com>
To: hp8924@yahoogroups.com
Sent: Monday, December 10, 2012 2:36 PM
Subject: Re: [hp8924] HP8924 Uncalibrated Accuracy

Chances are that if it works at all and no one has messed with the calibration, it will be plenty close enough for ham usage.

The frequency is easy to check out.  Hook it to an outside antenna and tune in WWV at 20 or 15 MHZ.  It should read out the frequency to the last place.  Even if it is 2 cps off, that only equates to 20 to 40 hz off at 150 mhz.  I checked the output of several 2 meter repeaters and have found them to be off from a hundred to almost 1000 cps from the nominal frequency.Some that much low to that much high.  So even if my 8924 is off some, that would put atlest some of the repeaters off more that 1000 hz.
I bought one about a year ago and it was not calibrated either.  The 8924 reads out WWV at 20 mhz to the last 0 and it may bounce down once and a while to 19 an all 9s..  There could be that much doppler shift as the signal bounces around.

You may compair the output power to a couple of receivers and see if it is close to what the receivers are rated for.  I have a Motorola generator that is probalbly 40 years old and the output on it compairs very well with the 8924.  That is the old one like some of the GE Mastr ll books have in it.

If you want to  check the FM deviation of the generator part, set it up with the spectrum analizer to look at the output.  Then as you increase the deviation you can see the 'carrier' dissapear.  I think that it is about 2.4 times the audio frequuency where it should dissapear.
Look up Bessel function for a detail on this.

For tuning the duplexers,  all you need is to be close to the frequency.  Most everything else is for maximum or minimum.  When you normilize the 8924 for the loss in a duplexer, this should put it close enough to see if you have too much loss.

There are some more self checks you can make from the various menues in the 8924.

Unless you find someone that has a service monitor that just came back from a calibration lab, the 8924 is probably more accurate than most of the service monitors in use even if it has not been calibrated in years.

The good thing about the ham bands is that you only have to be somewhere in the band to be legal. Not that you would not want to be as close as you can.

--- On Mon, 12/10/12, wb5nfc <wb5nfc@...> wrote:

>From: wb5nfc <wb5nfc@...>
>Subject: [hp8924] HP8924 Uncalibrated Accuracy
>To: hp8924@yahoogroups.com
>Date: Monday, December 10, 2012, 2:42 PM
>
>
>I've owned my 8924 for a few years now, but I'm just now getting serious about using it for duplexer tuning and other duties. Mine came via the surplus market, so it was not recalibrated upon purchase. All initial start-up testing is normal, but I'm just wondering if there is a way to ensure accuracy "close enough for amateur work" without a trip to a cal lab?
>
>Thanks.
>
>John / WB5NFC
>
>
>

# 1247. Re: RF Tools

Yahoo group: hp8924
Date: 2012-12-11 01:03:27 UTC
From: jyelmgren
Topic: 1199  Message: 1247

looked at the code in the NA_FM.pgm that errors out on the 8924C.

It has a number of places it looks at the model to set variables.

Have not had a chance to try this but was going to change the instances of 8920B to 8924C and see if that corrects the error. Picked the 8920B model to switch since that should be closest to the 8924C.

My guess is that it's trying to set some variables based on model ..8920A. 8921A or 8920B and when the model does not match a variable is left with the wrong or no value set.

Thought someone may have a chance to try this before I get a chance around the holidays.

--- In hp8924@yahoogroups.com, Ralph Mowery <ku4pt@...> wrote:
>
>
> I do not recall the error, but I was getting an error on the FMNA program on a 8924c.  By edditing out a line , the program would load and start to run,but would lock up or something.  From that I doubt it is a memory problem in my 8924c.
>
>
> --- On Thu, 10/25/12, Robert Atkinson <robert8rpi@...> wrote:
>
>
> From: Robert Atkinson <robert8rpi@...>
> Subject: Re: [hp8924] RF Tools
> To: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
> Date: Thursday, October 25, 2012, 2:19 AM
>
>
>
>
>
>
>
>
>
>
>
> Hi,
> This might also be a memory issue. To run NA FM tests on a 8920A you need a optional 512K RAM expansion. I don't know how much free RAM a 8924C has.
>
> Robert.
>

# 1248. Re: HP8924 Uncalibrated Accuracy

Yahoo group: hp8924
Date: 2012-12-11 17:12:41 UTC
From: c_day_nz
Topic: 1244  Message: 1248

The two main things to look at are frequency and the reference voltages on the measurement unit (+ & - 5V rails). I use a Trimble Thunderbolt (GPS locked 10MHz reference) and older HP 6 digit multimeter. You'll probably be able to pick up both for less than the cost of calibration.
Once the reference frequency is set (& don't forget the warm-up period ☐ my 2x 8924's take at least 40 minutes to stabalise), the internal ROM procedures PER_CAL3, CDMA_CAL, and PCB_CAL are used to set everything else up. From what I can see, the 8924C is designed to be self calibrating once its time base and voltage reference are set. Great kit for the shack. Cheers & 73s Chris.

# 1249. New member..

Yahoo group: hp8924
Date: 2012-12-22 03:07:58 UTC
From: KD5SFA
Topic: 1249  Message: 1249

Just got a new to me 8924c from the surplus market.

Then I found this group..jackpot !!

Now I have lots of reading to do..

In the mean time I need to start looking for cables, test probes and such. Any recommendation on places to find these ?

73,
Jon
KD5SFA

# 1250. Re: [hp8924] New member..

Yahoo group: hp8924
Date: 2012-12-22 03:52:52 UTC
From: Ralph Mowery
Topic: 1249  Message: 1250

Most of the cables you will need is just jumpers that fit the connectons on the 8924C and whatever you want to hook it to.  Double shielded if possiable when doing low level signal duplex testing.

If you do not know it, the 8924c book is about useless for most things.  However the book for the 8920 is what you want to look for .  The buttons you press on the two are marked differant,but they are similar.  The screens are almost the same for the two units.

--- On Fri, 12/21/12, KD5SFA <kd5sfa@...> wrote:

From: KD5SFA <kd5sfa@...>
Subject: [hp8924] New member..
To: hp8924@yahoogroups.com
Date: Friday, December 21, 2012, 10:07 PM

Just got a new to me 8924c from the surplus market.

Then I found this group..jackpot !!

Now I have lots of reading to do..

In the mean time I need to start looking for cables, test probes and such.  Any recommendation on places to find these ?

73,
Jon
KD5SFA

# 1251. Re: [hp8924] New member..

Yahoo group: hp8924
Date: 2012-12-22 04:14:37 UTC
From: Jon
Topic: 1249  Message: 1251

I had read that about the book on the 8924c...but I did download a copy of the 8920 book.

Thanks for the info.

I'm also looking at the 100 watt upgrade info in the files section...mine is only rated for 3w. I can use an external attenuator in the mean time.

73
Jon

On Fri, Dec 21, 2012 at 9:52 PM, Ralph Mowery <ku4pt@...> wrote:

> **
>
>
> Most of the cables you will need is just jumpers that fit the connectons
> on the 8924C and whatever you want to hook it to. Double shielded if
> possiable when doing low level signal duplex testing.
>
> If you do not know it, the 8924c book is about useless for most things.
> However the book for the 8920 is what you want to look for . The buttons
> you press on the two are marked differant,but they are similar. The
> screens are almost the same for the two units.
>
>
> --- On *Fri, 12/21/12, KD5SFA <kd5sfa@...>* wrote:
>
>
> From: KD5SFA <kd5sfa@...>
> Subject: [hp8924] New member..
> To: hp8924@yahoogroups.com
> Date: Friday, December 21, 2012, 10:07 PM
>
>
>
> Just got a new to me 8924c from the surplus market.
>
> Then I found this group..jackpot !!
>
> Now I have lots of reading to do..
>
> In the mean time I need to start looking for cables, test probes and
> such. Any recommendation on places to find these ?
>
> 73,

> Jon
> KD5SFA
>
>
>

# 1252. Re: [hp8924] New member..

Yahoo group: hp8924
Date: 2012-12-22 04:29:56 UTC
From: Ralph Mowery
Topic: 1249  Message: 1252

If that 100 watt upgrade is the one replaceing the input attuenuator, it is worth while.  I did the factory upgrade to a 60 watt unit but it will take around 100 watts for about 10 or 15 seconds.  Only takes a couple of minuits to do the mechanical job of replacing the attenuator pad, but half an hour to get to it by removing all the screws and shielding.

--- On Fri, 12/21/12, Jon <kd5sfa@...> wrote:

From: Jon <kd5sfa@...>
Subject: Re: [hp8924] New member..
To: hp8924@yahoogroups.com
Date: Friday, December 21, 2012, 11:14 PM

I had read that about the book on the 8924c...but I did download a copy of the 8920 book.

Thanks for the info.

I'm also looking at the 100 watt upgrade info in the files section...mine is only rated for 3w.  I can use an external attenuator in the mean time.

73
Jon

# 1253. Re: [hp8924] New member..

Yahoo group: hp8924
Date: 2012-12-22 05:00:17 UTC
From: Jon
Topic: 1249  Message: 1253

Yes that's the one I am talking about...

On Fri, Dec 21, 2012 at 10:29 PM, Ralph Mowery <ku4pt@...> wrote:

> **
>
>
> If that 100 watt upgrade is the one replaceing the input attuenuator, it
> is worth while. I did the factory upgrade to a 60 watt unit but it will
> take around 100 watts for about 10 or 15 seconds. Only takes a couple of
> minuits to do the mechanical job of replacing the attenuator pad, but half
> an hour to get to it by removing all the screws and shielding.
>
>
> --- On *Fri, 12/21/12, Jon <kd5sfa@...>* wrote:
>
>
> From: Jon <kd5sfa@...>
> Subject: Re: [hp8924] New member..
> To: hp8924@yahoogroups.com
> Date: Friday, December 21, 2012, 11:14 PM
>
>
>
>
> I had read that about the book on the 8924c...but I did download a copy of
> the 8920 book.
>
> Thanks for the info.
>
> I'm also looking at the 100 watt upgrade info in the files section...mine
> is only rated for 3w. I can use an external attenuator in the mean time.
>
> 73
> Jon
>
> <http://us.mc1138.mail.yahoo.com/mc/compose?to=hp8924-unsubscribe@yahoogroups.com&subjec
t=Unsubscribe>
>
>
>

# 1254. Re: New member..

Yahoo group: hp8924
Date: 2012-12-22 19:27:19 UTC
From: willcoele@ameritech.net
Topic: 1249  Message: 1254

Hi Ralph.

I have a 3 watt unit with a 20 db, 100 watt external attenuator. The attenuator can stand 100 watts for several hours and I don't have to worry about over stressing the internal load. There's an option in the configuration menu that I adjust to compensate for the attenuator and its calibtated to measure rf power accurately. Where the RF analyzer begins to rolls off at 10 MHz, I even have it calibrated to measure power levels at 3, 7 and 10 MHz. I have configurations saved for each frequency with the proper attenuation, calibration, mode and signal levels. There's a photo of my setup in the files section.

Jack WA9FVP
Willco Electronics

--- In hp8924@yahoogroups.com, Ralph Mowery <ku4pt@...> wrote:
>
> If that 100 watt upgrade is the one replaceing the input attuenuator, it is worth while. I did the factory upgrade to a 60 watt unit but it will take around 100 watts for about 10 or 15 seconds.  Only takes a couple of minuits to do the mechanical job of replacing the attenuator pad, but half an hour to get to it by removing all the screws and shielding.
>
>
> --- On Fri, 12/21/12, Jon <kd5sfa@...> wrote:

# 1255. Re: [hp8924] Re: New member..

Yahoo group: hp8924
Date: 2012-12-22 19:58:21 UTC
From: Ralph Mowery
Topic: 1249  Message: 1255

yes, Jack the external attuenator is a good way to go.  Especially if you do not want to dig into the 8924c.
Knowing my luck I would hook a transmitter up and forget the external stuff.  Also just something else to forget when  I do carry it to the repeater.

I do have one of the 250 watt dummy loads that has the built in tap that cuts the power to that port by about 40 db depending on the frequency.  If I do not forget, I try to carry that along to the repeater site.

Good move about saving the setups for power levels below 10 mhz.  I have not thought about that, but seldom measuer anything that low.  Have been dragging out another wattmeter when I do.
That is one nice thing about the 8924c.  If you do something very often you can set it up in the memory and a button push or two is all you need.

--- On Sat, 12/22/12, willcoele@... <willcoele@ameritech.net> wrote:

From: willcoele@... <willcoele@...>
Subject: [hp8924] Re: New member..
To: hp8924@yahoogroups.com
Date: Saturday, December 22, 2012, 2:27 PM

Hi Ralph.

I have a 3 watt unit with a 20 db, 100 watt external attenuator.  The attenuator can stand 100 watts for several hours and I don't have to worry about over stressing the internal load.  There's an option in the configuration menu that I adjust to compensate for the attenuator and its calibtated to measure rf power accurately.  Where the RF analyzer begins to rolls off at 10 MHz,  I even have it calibrated to measure power levels at 3, 7 and 10 MHz. I have configurations saved for each frequency with the proper attenuation, calibration, mode and signal levels.  There's a photo of my setup in the files section.

Jack WA9FVP
Willco Electronics

# 1256. 8920 video

Yahoo group: hp8924
Date: 2012-12-25 03:41:42 UTC
From: kb9jzy
Topic: 1256  Message: 1256

Hi everyone,
Awhile back there was a training video posted for the 8920 family. I can't seem to find it. Can someone help?

Tnx,
Terry K9HA

# 1257. Re: [hp8924] 8920 video

Yahoo group: hp8924
Date: 2012-12-25 04:25:49 UTC
From: Ralph Mowery
Topic: 1256  Message: 1257

Here is wht I have from a while back.  You should be able to find it at thease places if it is still there.

If changing the file extension to MP4 doesn't work, you might need to DL it again. It should play in most any version of VLC or GOM.

Slight change of plan. Being as my webhost is not cooperating with the single large file, I removed it. In place, I added another set of smaller pieces to DL. These are from WinRAR, for those familiar with that, and should reassemble using either WinRAR or 7-Zip. Just another option to the original set that Joe created. They can be found here…
http://grovesnet.org/Downloads/

For those interested in getting it in one chunk, Jim has kindly uploaded it to his site here (and it's working much better than mine did)…
http://www.vvgmc.org/freda/Hp8920a%20Rf%20Communication%20Set-1.m4v

Mike, KD7MG

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Colin Matten
Sent: Monday, March 12, 2012 11:13 PM
To: hp8924@yahoogroups.com
Subject: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

My download size was the same as the below when viewed via right click and properties on the file.

File manager shows the size as 1,183,362KB, whereas right click and properties shows it as 1,211,762,242 bytes

--- In hp8924@yahoogroups.com, "Mike, KD7MG" <kd7mg@...> wrote:
>
> Roger,
>
> If you downloaded the full version and it's not exactly 1,211,762,242 bytes,
> then the server aborted your DL prematurely. It's been my experience that if
> this file is incomplete, it won't work in any player.
>
> Mike, KD7MG
>
>
>

--- On Mon, 12/24/12, kb9jzy <kb9jzy@...> wrote:

From: kb9jzy <kb9jzy@...>
Subject: [hp8924] 8920 video
To: hp8924@yahoogroups.com

Date: Monday, December 24, 2012, 10:41 PM

Hi everyone,
Awhile back there was a training video posted for the 8920 family. I can't seem to find it. Can someone help?

Tnx,
Terry K9HA

# 1258. Re: 8920 video

Yahoo group: hp8924
Date: 2012-12-27 00:07:47 UTC
From: wb6dgn_tom@att.net
Topic: 1256  Message: 1258

Lots of useful information here and enjoyed browsing the site BUT if you're starting to talk about downloading GIGABIT sized files this is no place for me. I DON'T have and WILL NEVER HAVE a computer capable of doing this so, I guess, its time I leave. Sorta like me hanging out with millionaires, I JUST DON'T BELONG.
Tom

--- In hp8924@yahoogroups.com, Ralph Mowery <ku4pt@...> wrote:
>
> Here is wht I have from a while back.Â  You should be able to find it at thease places if it is still there.
>
> Â
>
> If changing the file extension to MP4 doesnâ□□t work, you might need to DL it again. It should play in most any version of VLC or GOM.
>
> Slight change of plan. Being as my webhost is not cooperating with the single large file, I removed it. In place, I added another set of smaller pieces to DL. These are from WinRAR, for those familiar with that, and should reassemble using either WinRAR or 7-Zip. Just another option to the original set that Joe created. They can be found hereâ□¦
> http://grovesnet.org/Downloads/
>
> For those interested in getting it in one chunk, Jim has kindly uploaded it to his site here (and itâ□□s working much better than mine did)â□¦
> http://www.vvgmc.org/freda/Hp8920a%20Rf%20Communication%20Set-1.m4v
>
> Mike, KD7MG

# 1259. Re: [hp8924] Re: 8920 video

Yahoo group: hp8924
Date: 2012-12-27 01:01:55 UTC
From: Brad Thompson
Topic: 1256  Message: 1259

On 12/26/2012 7:07 PM, wb6dgn_tom@... wrote:
> Lots of useful information here and enjoyed browsing the site BUT if
> you're starting to talk about downloading GIGABIT sized files this is no
> place for me. I DON'T have and WILL NEVER HAVE a computer capable of
> doing this so, I guess, its time I leave. Sorta like me hanging out with
> millionaires, I JUST DON'T BELONG.
> Tom

Hello, Tom and the group--

Please don't bail out of the group-- odds are good that someone
can download the file and copy it to a CD-ROM for you.

This web site...

http://pcsupport.about.com/od/fileextensions/f/m4vfile.htm

...Describes how to open a file with an "m4v" extension.
Take a look at it and decide whether your PC would be
capable of opening the file. You might need to download
an appropriate file viewer if you don't have one.

After taking a look at the web page given above, please
respond to the hp8924 group. If you need the file on a CD,
one of us can mail it to you. (I'd offer to do so, but we
have an immediate and ongoing family crisis at present.)

73--

Brad AA1IP

# 1260. Re: [hp8924] Re: 8920 video

Yahoo group: hp8924
Date: 2012-12-27 03:11:39 UTC
From: Ralph Mowery
Topic: 1256  Message: 1260

Tom it does not take that much of a computer to download the file.  It does take a DSL or cable modem.  I don't recall how long it took me, but probably an hour or two with a cable modem.  If you have that, you can always start it downloading and go to bed and get it in the morning.

Reminds me of using the 56 k modem on the telephone and downloading some of the 20 meg files.  Went and got a haircut and a few other things and when I got back home, it was still downloading.

If you have the 8920 or 8924C you are already in the club.

--- On Wed, 12/26/12, wb6dgn_tom@att.net <wb6dgn_tom@...> wrote:

From: wb6dgn_tom@... <wb6dgn_tom@att.net>
Subject: [hp8924] Re: 8920 video
To: hp8924@yahoogroups.com
Date: Wednesday, December 26, 2012, 7:07 PM

Lots of useful information here and enjoyed browsing the site BUT if you're starting to talk about downloading GIGABIT sized files this is no place for me.  I DON'T have and WILL NEVER HAVE a computer capable of doing this so, I guess, its time I leave.  Sorta like me hanging out with millionaires, I JUST DON'T BELONG.
Tom

# 1261. Re: 8920 video

Yahoo group: hp8924
Date: 2012-12-27 13:48:58 UTC
From: Joe Leikhim
Topic: 1256  Message: 1261

That file is viewable on Apple IOS devices, iPod Touch, iPad, iPhone etc. Probably Android smartphones as well.

--
Joe Leikhim

Leikhim and Associates

Communications Consultants

Oviedo, Florida

JLeikhim@...

407-982-0446

WWW.LEIKHIM.COM

# 1262. Re: [hp8924] Re: 8920 video

Yahoo group: hp8924
Date: 2012-12-27 16:37:12 UTC
From: Ralph Mowery
Topic: 1256  Message: 1262

Tom I put a mailer with 2 cd's in it.  They are the DVD type as the file was too big to fit on a regular CD.  I hope you have a computer that will play the DVD.

One DVD just has the vidio file on it.  The other has that file plus a lot of other files that I have for the 8920 and 8924c units.

I do not know, but do not think the DVD will play on a regular TV DVD player.  I have never tried that in a regular DVD player hooked to the TV.  The file will play on a computer with the program Real Player or another one called VLC Media Player.  Both of them are free programs that you can download if you do not have them. It may play with ohters, but I have not tried that either.  Most of the other files are PDF or text or JPG pictuer files that you should not have any probelm with.

73

--- On Wed, 12/26/12, wb6dgn_tom@... <wb6dgn_tom@...> wrote:

From: wb6dgn_tom@... <wb6dgn_tom@...>
Subject: [hp8924] Re: 8920 video
To: hp8924@yahoogroups.com
Date: Wednesday, December 26, 2012, 7:07 PM

Lots of useful information here and enjoyed browsing the site BUT if you're starting to talk about downloading GIGABIT sized files this is no place for me.  I DON'T have and WILL NEVER HAVE a computer capable of doing this so, I guess, its time I leave.  Sorta like me hanging out with millionaires, I JUST DON'T BELONG.
Tom

# 1263. Re: 8920 video

Yahoo group: hp8924
Date: 2012-12-27 23:05:33 UTC
From: willcoele@ameritech.net
Topic: 1256  Message: 1263

Tom,

We're not millionaires, if we were, we would belonge to the Rhode & Scwharz group and own a $50,000 MW500 communications analyzer. Most of us paid under $1,000 or under $500 for broken unit. We share information and help each other with repair problems and operating tips.

--- In hp8924@yahoogroups.com, "wb6dgn_tom@..." <wb6dgn_tom@...> wrote:
>
> Lots of useful information here and enjoyed browsing the site BUT if you're starting to talk about downloading GIGABIT sized files this is no place for me. I DON'T have and WILL NEVER HAVE a computer capable of doing this so, I guess, its time I leave. Sorta like me hanging out with millionaires, I JUST DON'T BELONG.
> Tom
>
>

# 1264. Re: 8920 video

Yahoo group: hp8924
Date: 2012-12-28 22:57:03 UTC
From: wb6dgn_tom@att.net
Topic: 1256  Message: 1264

All,
Thanks for the kind replies. Guess I was a little overdramatic the other day but I've been dealing with one of my Shelties that is dying of kidney failure so my morale is at an all-time low right now. Probably not likely to improve for a while.
Ralph, thanks for making those CDs for me. I do have a DVD player in this computer and a CD writer so I should have no trouble seeing them. My problem is the hard drive. Its only a 10Gig drive and I've been squeaking by with only an average of about 8% free space. I've been looking for a 40 to 80 gig drive to replace it but, so far, no luck. The smallest one I've been able to find on the auction site is 120 gig. Its only about $20 but I don't think this old P3 computer will support that. I missed out on two 60 gig Seagate drives by about a half hour. When I got back from lunch, they were gone. Guess that'll teach me to put lunch first! Getting really hard to find any drive that isn't serial ATA anyway.
Thanks again and, in the future, I'll try to keep my "cheery" comments to myself.
Tom

--- In hp8924@yahoogroups.com, "willcoele@..." <willcoele@...> wrote:
>
>
>
> Tom,
>
> We're not millionaires, if we were, we would belonge to the Rhode & Scwharz group and own a $50,000 MW500 communications analyzer. Most of us paid under $1,000 or under $500 for broken unit. We share information and help each other with repair problems and operating tips.
>
>
>
> --- In hp8924@yahoogroups.com, "wb6dgn_tom@" <wb6dgn_tom@> wrote:
> >
> > Lots of useful information here and enjoyed browsing the site BUT if you're starting to talk about downloading GIGABIT sized files this is no place for me. I DON'T have and WILL NEVER HAVE a computer capable of doing this so, I guess, its time I leave. Sorta like me hanging out with millionaires, I JUST DON'T BELONG.
> > Tom
> >
> >
>

# 1265. Re: [hp8924] Re: 8920 video

Yahoo group: hp8924
Date: 2012-12-28 23:25:39 UTC
From: Ralph Mowery
Topic: 1256  Message: 1265

Tom the DVD is on the way.  I put it in my mail box yesterday about 11 as the mail usually comes after 12.  Wouldn't you know it, for the first time in several years it went before 11.  Anyway it was picked up today so if it does not get lost in the snow you should get it soon.

Sounds like you need to do like I did several years ago and get a used computer off ebay. You can often pick them up for less than $ 100 shipped. That is without the monitor. That even included the Windows XP system and disc and the Microsoft number for the disc.  What do they call that ?  Maybe the COA..

I am almost a millionair so sent you the disc.  Have about a buck 98 in the checking accountg..hihi..  That leaves me just under 999,998 short of that million..

I don't recall, if you said, but do you have a 8920,8924 or what ?  There are several sets that are very similar to the way they work and the looks of the screens.

73

--- On Fri, 12/28/12, wb6dgn_tom@... <wb6dgn_tom@...> wrote:

From: wb6dgn_tom@... <wb6dgn_tom@...>
Subject: [hp8924] Re: 8920 video
To: hp8924@yahoogroups.com
Date: Friday, December 28, 2012, 5:57 PM

All,
Thanks for the kind replies.  Guess I was a little overdramatic the other day but I've been dealing with one of my Shelties that is dying of kidney failure so my morale is at an all-time low right now.  Probably not likely to improve for a while.
Ralph, thanks for making those CDs for me.  I do have a DVD player in this computer and a CD writer so I should have no trouble seeing them.  My problem is the hard drive.  Its only a 10Gig drive and I've been squeaking by with only an average of about 8% free space.  I've been looking for a 40 to 80 gig drive to replace it but, so far, no luck.  The smallest one I've been able to find on the auction site is 120 gig.  Its only about $20 but I don't think this old P3 computer will support that.  I missed out on two 60 gig Seagate drives by about a half hour.  When I got back from lunch, they were gone.  Guess that'll teach me to put lunch first!  Getting really hard to find any drive that isn't serial ATA anyway.
Thanks again and, in the future, I'll try to keep my "cheery" comments to myself.
Tom

# 1266. back on the subject of cables...

Yahoo group: hp8924
Date: 2012-12-30 17:11:46 UTC
From: Jon
Topic: 1266  Message: 1266

Considering my unit came with no cables...
Do most assemble their own cables ? I understand the need for double shielded coax.
So is a good rg-8x sufficient or rg-142 better ? I know LMR series in full duplex service is bad. I assume that
it is not the best for testing either.

I figure a complement of cables N-Male to what ever you typically connect to. (pl-259, sma, reverse sma, bnc, mini uhf, tnc, f).

I located the proper series for the oscilloscope probes..

Any special leads for the volt meter functions ?

73,
Jon

# 1267. Re: [hp8924] back on the subject of cables...

Yahoo group: hp8924
Date: 2012-12-30 17:40:09 UTC
From: Ralph Mowery
Topic: 1266  Message: 1267

I would thing that most do make their own cables.  If you are not doing duplexer tuning, the single shielded cables are fine in most cases.  I do have some double shielded cables I made up out of double shielded cable.  I do have several cables with bnc on one end and N or pl259 on the other end.  Most are made out of double shielded cable as I picked up some with N connectors on them for almost nothing at a hamfest.  They are about the same size as rg8X on the outside diameter.

One thing I do to make it easy it to put a wrap or two of red electrical tape near the connector on each of the double shielded stuff.  Makes it quick to find them among all the other coax.

I think it is the RG-400  ( not LMR -400 ) that is double shielded with a stranded center conductor.  You may want to get or make a few  cables like that about 4 to 6 feet long.

While maybe not the best, I have a bunch of adapters to go from one type of connector to another.

I am thinking the oscilliscope is not good for over 1 mhz.  Maybe less. If so the lead is not that critical.  I do not use that function on mine.

The volt meter is only good for low voltages and I do not use that either as I have a good digital meter.

I do have a bnc connector that has some coax the looks to be about the rg 174 size with alligator clips on the other end for doing sinad tests.

--- On Sun, 12/30/12, Jon <kd5sfa@...> wrote:

From: Jon <kd5sfa@...>
Subject: [hp8924] back on the subject of cables...
To: hp8924@yahoogroups.com
Date: Sunday, December 30, 2012, 12:11 PM

Considering my unit came with no cables...
Do most assemble their own cables ?  I understand the need for double shielded coax.
So is a good rg-8x sufficient or rg-142 better ? I know LMR series in full duplex service is bad.  I assume that
it is not the best for testing either.

I figure a complement of cables N-Male to what ever you typically connect to. (pl-259, sma, reverse sma, bnc, mini uhf, tnc, f).

I located the proper series for the oscilloscope probes..

Any special leads for the volt meter functions ?

73,
Jon

# 1268. Re: [hp8924] back on the subject of cables...

Yahoo group: hp8924
Date: 2012-12-31 00:29:05 UTC
From: Pedro Castillo
Topic: 1266  Message: 1268

I use these.

http://rfsearch.rfindustries.com/ShowProduct.asp?classID=25&productID=6168

http://rfsearch.rfindustries.com/ShowProduct.asp?classID=22&productID=5404

Happy hollidays.

Pedro

Enviado desde mi iPad

El 30/12/2012, a las 11:40 a.m., Ralph Mowery <ku4pt@...> escribió:

> I would thing that most do make their own cables. If you are not doing duplexer tuning, the single shielded cables are fine in most cases. I do have some double shielded cables I made up out of double shielded cable. I do have several cables with bnc on one end and N or pl259 on the other end. Most are made out of double shielded cable as I picked up some with N connectors on them for almost nothing at a hamfest. They are about the same size as rg8X on the outside diameter.
>
> One thing I do to make it easy it to put a wrap or two of red electrical tape near the connector on each of the double shielded stuff. Makes it quick to find them among all the other coax.
>
> I think it is the RG-400 ( not LMR -400 ) that is double shielded with a stranded center conductor. You may want to get or make a few cables like that about 4 to 6 feet long.
>
> While maybe not the best, I have a bunch of adapters to go from one type of connector to another.
>
> I am thinking the oscilliscope is not good for over 1 mhz. Maybe less. If so the lead is not that critical. I do not use that function on mine.
>
> The volt meter is only good for low voltages and I do not use that either as I have a good digital meter.
>
> I do have a bnc connector that has some coax the looks to be about the rg 174 size with alligator clips on the other end for doing sinad tests.
>
>
> --- On Sun, 12/30/12, Jon <kd5sfa@...> wrote:
>
> From: Jon <kd5sfa@...>
> Subject: [hp8924] back on the subject of cables...
> To: hp8924@yahoogroups.com
> Date: Sunday, December 30, 2012, 12:11 PM

>
>
>
> Considering my unit came with no cables...
> Do most assemble their own cables ? I understand the need for double shielded coax.
> So is a good rg-8x sufficient or rg-142 better ? I know LMR series in full duplex service is bad. I assume that
> it is not the best for testing either.
>
> I figure a complement of cables N-Male to what ever you typically connect to. (pl-259, sma, reverse sma, bnc, mini uhf, tnc, f).
>
> I located the proper series for the oscilloscope probes..
>
> Any special leads for the volt meter functions ?
>
> 73,
> Jon
>
>
>

# 1269. Re: [hp8924] back on the subject of cables...

Yahoo group: hp8924
Date: 2012-12-31 02:30:50 UTC
From: Ralph Mowery
Topic: 1266  Message: 1269

They are nice to have.  I do have a set like that I picked up cheap.

Only problem for me is that I only have enough cables to make up one of each. It would be nice to have enough connectors to make up two cables with the same ends on them.  They do come in handy when I do not have a cable with the correct ends on them.

I often think that for the work I do I like to have cables that are atleast 6 feet long.

--- On Sun, 12/30/12, Pedro Castillo <hr2pac@...> wrote:

From: Pedro Castillo <hr2pac@yahoo.com>
Subject: Re: [hp8924] back on the subject of cables...
To: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
Cc: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
Date: Sunday, December 30, 2012, 7:29 PM

I use these.

http://rfsearch.rfindustries.com/ShowProduct.asp?classID=25&productID=6168

http://rfsearch.rfindustries.com/ShowProduct.asp?classID=22&productID=5404

Happy hollidays.

Pedro

# 1271. New to Group

Yahoo group: hp8924
Date: 2012-12-31 05:50:20 UTC
From: klyball
Topic: 1271  Message: 1271

Hi

i Just picked up a 8924c for xmas to myself and have have found lots of great info in this group, i will adding a vga monitor and doing a 100w upgrade,

I found the 11807Eopt100 in the file section and thought i would load it up, but with no PCMCIA card i was out of luck, until i found this hp drive emulator
http://www.hp9845.net/9845/projects/hpdrive/
i was successful in mounting a 640k (9122)drive and also a 40mb(9133L) drive being able to format , read and write to them. i am also able to run the hp rftools . The parts of the program that save plots and data are set to the card slot, so you would still need a card to save. although i have played around a little with the ibasic code to get it to save to disk or memory with some limeted success, but it needs work. i will upload a floppy image with rftools for those wishing to try this out.
* note the files take a few minutes to load to the 8924 so if nothing is happening its working *

# 1272. Re: [hp8924] New to Group - RF TOOLS

Yahoo group: hp8924
Date: 2012-12-31 10:29:30 UTC
From: Robert Atkinson
Topic: 1272  Message: 1272

Hi and welcome to the group.
For those not fortunate enough to have a working 91xx disk drive, the website you mention also has a drive emulation program. It just needs a PC and an HPIB card.
For anyone interested, I'm still offering the 11807E OPT 100 RF tools on a PROM PCMCIA card to group members at a discounted price of $60 inc Shipping. (contact me off-list).

Happy New Year,
Robert G8RPI.

---
From: klyball <klyball@...>
To: hp8924@yahoogroups.com
Sent: Monday, 31 December 2012, 5:39
Subject: [hp8924] New to Group

Hi

i Just picked up a 8924c for xmas to myself and have have found lots of great info in this group, i will adding a vga monitor and doing a 100w upgrade,

I found the hp rftools in the file section and thought i would load it up, but with no PCMCIA card i was out of luck, until i found this hp drive emulator
http://www.hp9845.net/9845/projects/hpdrive/
i was successful in mounting a 640k (9122)drive and also a 40mb(9133L) drive being able to format , read and write to them. i am also able to run the hp rftools . The parts of the program that save plots and data are set to the card slot, so you would still need a card to save. although i have played around a little with the ibasic code to get it to save to disk or memory with some limeted success, but it needs work. i will upload a floppy image with rftools for those wishing to try this out.
* note the files take a few minutes to load to the 8924 so if nothing is happening its working *

# 1277. Re: RF Tools

Yahoo group: hp8924
Date: 2013-01-05 09:57:26 UTC
From: klyball
Topic: 1199  Message: 1277

Hi

Here is how i got it to work,and i am working of emulated drives >

A. Make these changes***for Ts_rev$[3])>=08 use the first # of your firmware mines A.08.04***

```
1134 IF Ts_mod$="HP 8924C" OR (VAL(Ts_rev$[3])>=08 AND Cur$="YES") THEN
1397 IF Ts_mod$="HP 8924C" OR VAL(Ts_rev$[3])>=08 THEN
14002 IF Ts_mod$="HP 8924C" OR VAL(Ts_rev$[3])>=08 THEN
```

```
1334 ! IF POS(FNTs_mod$,"8921")<>0 THEN
1335 ! IF POS(I_o$,"TACS")<>0 THEN
1336 ! Flt_1$="CCITT"
1337 ! ELSE
1338 Flt_1$="C MESSAGE"
1339 ! END IF
1340 Flt_2$="6KHZ BPF"
1341 Cur$="YES"
1342 SUBEXIT
1343 ! END IF
1344 IF POS(FNTs_mod$,"8924C")<>0 THEN
```

```
13640 IF FNTs_mod$="HP 8924C" THEN
```

```
13651 IF FNTs_mod$="HP 8924C" THEN
```

```
14027 ! To_ts("*RST")
```

```
14017 ! To_ts("*RST")
```

B. Use the POWERON register

C. Set squelch control on in customize test procedure: Set up frequencies and any othe parameters you need

D. turn on Data collection if you want to get a file (i will upload the manual

E. Run the program

good luck

IC-28H low power no audio on mic line or any paramaters set
-Date [MM/DD/YY] 010413 Time [HH.MM) 21.43

```
This program performs automated tests for FM radios.
================================================================================
Test conditions Measured value Lower limit Upper limit P/F
```

==========

_____Chan=1: RX Freq=146.52 MHz: TX Freq=146.52 MHz_____

RX audio sen @40% rated dev 8.3 Watts 5.0
RX audio distn 17 dB down 2.1 % 5.0
RX audio distortion 10.4 % 10.0 FAIL
RX usable sensitivity .17 uV 1.00
RX hum & noise unsquelched 54.2 dB 37.0
RX hum & noise squelched 89.0 dB 57.0
RX threshold squelch sens .09 uV .50
RX tight squelch sens .26 uV 10.00
RX sqlch block @ .30 kHz -.00 dB 10.00
RX sqlch block @ .80 kHz .00 dB 10.00
RX sqlch block @ 1.30 kHz -0.00 dB 10.00
RX sqlch block @ 1.80 kHz -.01 dB 10.00
RX sqlch block @ 2.30 kHz -.02 dB 10.00
RX sqlch block @ 2.80 kHz -.03 dB 10.00
RX sqlch block @ 3.00 kHz .02 dB 10.00
RX audio resp @ .30 kHz -13.00 dB error -7.40 1.00 FAIL
RX audio resp @ .80 kHz -1.70 dB error -3.00 1.00
RX audio resp @ 1.30 kHz 1.50 dB error -3.00 1.00 FAIL
RX audio resp @ 1.80 kHz 2.00 dB error -3.00 1.00 FAIL
RX audio resp @ 2.30 kHz .90 dB error -3.00 1.00
RX audio resp @ 2.80 kHz -1.00 dB error -5.00 1.00
RX audio resp @ 3.00 kHz -1.90 dB error -6.20 1.00
TX frequency error -.87 ppm -2.50 2.50
TX power @ nominal supply 5.1 Watts 8.0 12.0 FAIL
TX dev @ 100 mVrms .8 kHz -2.5 3.5
TX mod limiting inst pk+ 2.11 kHz 0.00 5.00
TX mod limiting @ .30 kHz 2.12 kHz 0.00 5.00
TX mod limiting @ 3.00 kHz 2.12 kHz 0.00 5.00
TX mod limiting inst pk- 2.15 kHz 0.00 5.00
TX mod limiting @ .30 kHz 2.12 kHz 0.00 5.00
TX mod limiting @ 3.00 kHz 2.12 kHz 0.00 5.00
TX FM hum and noise 0.0 dB 0.0 -35.0 FAIL
TX audio distortion 74.2 % 10.0 FAIL
Deviation would not set to 1 kHz
TX set deviation 0.0 P/F 1.0 1.0 FAIL
TX residual AM hum & noise .95 % AM 2.00

#Points passed= 27: Points failed= 8  Test time= 257 secs

--- In hp8924@yahoogroups.com, MICHAEL SMITH wrote:
>
> I have been playing with the RF Tools and when I load the "North American FM Test" (NA_FM) I get this error:
>
> Error 18 in 1356 String ovfl. or substring err
>
> Any ideas? Is it a problem with the PCMCIA card or data? Or a problem with the 8924C? Or operator error. Everything else loads fine.

>
> Sent from my iPhone 5
>
> Mike / KB8WLW
>

# 1278. Re: [hp8924] Re: RF Tools

Yahoo group: hp8924
Date: 2013-01-05 16:57:53 UTC
From: Ralph Mowery
Topic: 1199  Message: 1278

Thanks for the work on this.  I used Word to edit the program and load it on a card.  I could not check it on transmittt with what I was using, but the receive parts seems to run just fine.

The version of softwear on my 8924C is the same as yours.

I thought it would be simple for someone that knows how to program in HP Basic.  Well, the fix was simple, but bet you spent a good bit of time searching the program.

--- On Sat, 1/5/13, klyball <klyball@...> wrote:

From: klyball <klyball@...>
Subject: [hp8924] Re: RF Tools
To: hp8924@yahoogroups.com
Date: Saturday, January 5, 2013, 4:42 AM

Hi

Here is how i got it to work,and i am working of emulated drives >

A. Make these changes***for Ts_rev$[3])>=08 use the first # of your firmware mines A.08.04***

```
1134 IF Ts_mod$="HP 8924C" OR (VAL(Ts_rev$[3])>=08 AND Cur$="YES") THEN
1397 IF Ts_mod$="HP 8924C" OR VAL(Ts_rev$[3])>=08 THEN
14002 IF Ts_mod$="HP 8924C" OR VAL(Ts_rev$[3])>=08 THEN
```

```
1334 ! IF POS(FNTs_mod$,"8921")<>0 THEN
1335 ! IF POS(I_o$,"TACS")<>0 THEN
1336 ! Flt_1$="CCITT"
1337 ! ELSE
1338 Flt_1$="C MESSAGE"
1339 ! END IF
1340 Flt_2$="6KHZ BPF"
1341 Cur$="YES"
1342 SUBEXIT
1343 ! END IF
1344 IF POS(FNTs_mod$,"8924C")<>0 THEN
```

```
13640 IF FNTs_mod$="HP 8924C" THEN
```

```
13651 IF FNTs_mod$="HP 8924C" THEN
```

```
14027 ! To_ts("*RST")
```

```
14017 ! To_ts("*RST")
```

B. Use the POWERON register

C. Set squelch control on in customize test procedure: Set up frequencies and any othe parameters you need

D. turn on Data collection if you want to get a file (i will upload the manual

E. Run the program

good luck

# 1279. duplexer cable

Yahoo group: hp8924
Date: 2013-01-13 13:35:11 UTC
From: wd0ekr
Topic: 1279  Message: 1279

I know that this has already been discussed in the past but I would like to confirm something. If I measure the frequency of a .66 VF Sinclair 202g cable with the 1/4 wave coaxial filter tuning setup and then make a cable with .695 VF coax that centers up on the same frequency it should work on the duplexer, am I correct in assuming this? I am building the duplexer from can's that are minus the harness. I have the measurements for the factory rg-214 harness but I want to use rg-400.

Jim wd0ekr

# 1280. Re: [hp8924] duplexer cable

Yahoo group: hp8924
Date: 2013-01-13 15:41:32 UTC
From: Jon
Topic: 1279  Message: 1280

As far as I know in theory it should...provided you are adjusting for the difference in velocity factor..although small.

Jon
KD5SFA
On Sun, Jan 13, 2013 at 7:35 AM, wd0ekr <wd0ekr@...> wrote:

> **
>
>
> I know that this has already been discussed in the past but I would like
> to confirm something. If I measure the frequency of a .66 VF Sinclair 202g
> cable with the 1/4 wave coaxial filter tuning setup and then make a cable
> with .695 VF coax that centers up on the same frequency it should work on
> the duplexer, am I correct in assuming this? I am building the duplexer
> from can's that are minus the harness. I have the measurements for the
> factory rg-214 harness but I want to use rg-400.
>
> Jim wd0ekr
>
>
>

# 1281. Re: GBS 8200 Converter - A few mods that are needed.

Yahoo group: hp8924
Date: 2013-01-13 20:13:54 UTC
From: klyball
Topic: 320  Message: 1281

HI

i recieved my gbs-8200 and hooked it up without the sync circuit and it seems to be working fine with just adding the resistors, would i see a benifit in adding the sync circuit?

--- In hp8924@yahoogroups.com, "willcoele@..." wrote:
>
> I uploaded a few pictures in the Photos section of my GBS 8200 modifications.
>
> --- In hp8924@yahoogroups.com, "James H Vernetti" wrote:
> >
> > Thank you very much for your time and effort
> >
> > Jim wd0ekr
> >
> >
> > ----- Original Message -----
> > From: willcoele@
> > To: hp8924@yahoogroups.com
> > Sent: Friday, August 12, 2011 10:26 PM
> > Subject: [hp8924] GBS 8200 Converter - A few mods that are needed.
> >
> >
>

# 1282. HP 8920A Firmware Images

Yahoo group: hp8924
Date: 2013-01-15 20:11:47 UTC
From: Keith
Topic: 1282  Message: 1282

Anyone have the last firmware images for the 8920A? I'd like to update my unit but have had ZERO luck in locating them. I have a data i/o unisite to burn the proms so that's not an issue, locating the files is a different matter. Thanks for any leads or information or help! This is a great forum. I've built the VGA adapter for my monitor and helped a friend update his 8924C to 100 watts which wouldn't have been possible without the great info here. Thanks!

Keith L. Dobbins KC8RFW
Flight Paramedic
Parkersburg, WV

# 1283. 8924c limits

Yahoo group: hp8924
Date: 2013-01-16 20:15:10 UTC
From: wd0ekr
Topic: 1283  Message: 1283

OK am I missing something or is the 8924c not able to display more than -80db when using the tracking generator to tune a duplexer?

Jim wd0ekr

# 1284. Re: [hp8924] 8924c limits

Yahoo group: hp8924
Date: 2013-01-17 02:20:26 UTC
From: kc7rjk@comcast.net
Topic: 1284  Message: 1284
Attachments: 2 described; binary payloads are missing from this source WARC

[ Attachment content not displayed ]

# 1285. Re: [hp8924] 8924c limits

Yahoo group: hp8924
Date: 2013-01-17 14:19:17 UTC
From: James H Vernetti
Topic: 1283  Message: 1285

Thanks for the reply, I was doing the normalize thing again after I went to -50db which was defeating my purpose, it is working now.
----- Original Message -----
From: kc7rjk@...<mailto:kc7rjk@...>
To: hp8924@yahoogroups.com<mailto:hp8924@yahoogroups.com>
Sent: Wednesday, January 16, 2013 7:20 PM
Subject: Re: [hp8924] 8924c limits

You need to lower your reference level.

Sent from my Verizon Wireless 4GLTE smartphone

----- Reply message -----
From: "wd0ekr" <wd0ekr@...<mailto:wd0ekr@...>>
To: <hp8924@yahoogroups.com<mailto:hp8924@yahoogroups.com>>
Subject: [hp8924] 8924c limits
Date: Wed, Jan 16, 2013 12:15 pm

OK am I missing something or is the 8924c not able to display more than -80db when using the tracking generator to tune a duplexer?

Jim wd0ekr

# 1286. HP8924C keyboard

Yahoo group: hp8924
Date: 2013-01-18 05:58:36 UTC
From: Glenn Little WB4UIV
Topic: 1286  Message: 1286

Does any one have the rubber keypad for an 8924C?
This is the rubber sheet that goes between the front panel and the keyboard/encoder board.
I have an 8924C that is coming that has this part missing.
I can cut up the keypad from an 8922, but would like to get the correct keypad.
Any help appreciated.
I would settle for a replaced keypad from an intermittent keyboard.

Thanks
73
Glenn
WB4UIV

# 1287. Re: [hp8924] HP8924C keyboard

Yahoo group: hp8924
Date: 2013-01-18 06:43:45 UTC
From: Frederick Bray
Topic: 1286  Message: 1287

Try amtronix.com. Rick is very helpful and has a lot of parts for these things. Not all are listed on his website.

Sent from my CP/M phone!

On Jan 17, 2013, at 21:58, Glenn Little WB4UIV <glennmaillist@...> wrote:

> Does any one have the rubber keypad for an 8924C?
> This is the rubber sheet that goes between the front panel and the
> keyboard/encoder board.
> I have an 8924C that is coming that has this part missing.
> I can cut up the keypad from an 8922, but would like to get the correct keypad.
> Any help appreciated.
> I would settle for a replaced keypad from an intermittent keyboard.
>
> Thanks
> 73
> Glenn
> WB4UIV
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

# 1288. Re: GBS 8200 Converter - A few mods that are needed.

Yahoo group: hp8924
Date: 2013-01-19 21:35:29 UTC
From: klyball
Topic: 320  Message: 1288

Update:

I added the sync circuit and it makes the display rock solid, thanks for all the info on this site. Just waiting for the 20db 100w pad to arrive and im all set.

p.s. i have modifided the calabration files to run on my emulated drives, as i still don't have a sram card and can upload to file section if anyone is interested.

--- In hp8924@yahoogroups.com, "klyball" wrote:
>
>
> HI
>
> i recieved my gbs-8200 and hooked it up without the sync circuit and it seems to be working fine with just adding the resistors, would i see a benifit in adding the sync circuit?
>
>
> --- In hp8924@yahoogroups.com, "willcoele@" wrote:
> >
> > I uploaded a few pictures in the Photos section of my GBS 8200 modifications.
> >
> > --- In hp8924@yahoogroups.com, "James H Vernetti" wrote:
> > >
> > > Thank you very much for your time and effort
> > >
> > > Jim wd0ekr
> > >
> > >
> > > ----- Original Message -----
> > > From: willcoele@
> > > To: hp8924@yahoogroups.com
> > > Sent: Friday, August 12, 2011 10:26 PM
> > > Subject: [hp8924] GBS 8200 Converter - A few mods that are needed.
> > >
> > >
> >
>

# 1289. Re: GBS 8200 Converter - A few mods that are needed.

Yahoo group: hp8924
Date: 2013-01-20 04:54:56 UTC
From: willcoele@ameritech.net
Topic: 320 Message: 1289

That's good news! I wonder if you added the bias resistors as shown in the photo section.

Jack WA9FVP
Willco Electronics

--- In hp8924@yahoogroups.com, "klyball" wrote:
>
> Update:
>
> I added the sync circuit and it makes the display rock solid, thanks for all the info on this site. Just waiting for the 20db 100w pad to arrive and im all set.
>
> p.s. i have modifided the calabration files to run on my emulated drives, as i still don't have a sram card and can upload to file section if anyone is interested.
>
>
> --- In hp8924@yahoogroups.com, "klyball" wrote:
> >
> >
> > HI
> >
> > i recieved my gbs-8200 and hooked it up without the sync circuit and it seems to be working fine with just adding the resistors, would i see a benifit in adding the sync circuit?
> >
> >
> > --- In hp8924@yahoogroups.com, "willcoele@" wrote:
> > >
> > > I uploaded a few pictures in the Photos section of my GBS 8200 modifications.
> > >
> > > --- In hp8924@yahoogroups.com, "James H Vernetti" wrote:
> > > >
> > > > Thank you very much for your time and effort
> > > >
> > > > Jim wd0ekr
> > > >
> > > >
> > > > ----- Original Message -----
> > > > From: willcoele@
> > > > To: hp8924@yahoogroups.com
> > > > Sent: Friday, August 12, 2011 10:26 PM
> > > > Subject: [hp8924] GBS 8200 Converter - A few mods that are needed.
> > > >
> > > >
> > >

> >
>

# 1290. Re: GBS 8200 Converter - A few mods that are needed.

Yahoo group: hp8924
Date: 2013-01-20 06:43:50 UTC
From: klyball
Topic: 320 Message: 1290

yes the added all the resistors , works great
--- In hp8924@...m, "willcoele@..." wrote:
>
> That's good news! I wonder if you added the bias resistors as shown in the photo section.
>
> Jack WA9FVP
> Willco Electronics
>
>
> --- In hp8924@yahoogroups.com, "klyball" wrote:
> >
> > Update:
> >
> > I added the sync circuit and it makes the display rock solid, thanks for all the info on this site. Just waiting for the 20db 100w pad to arrive and im all set.
> >
> > p.s. i have modifided the calabration files to run on my emulated drives, as i still don't have a sram card and can upload to file section if anyone is interested.
> >
> >
> > --- In hp8924@yahoogroups.com, "klyball" wrote:
> > >
> > >
> > > HI
> > >
> > > i recieved my gbs-8200 and hooked it up without the sync circuit and it seems to be working fine with just adding the resistors, would i see a benifit in adding the sync circuit?
> > >
> > >
> > > --- In hp8924@yahoogroups.com, "willcoele@" wrote:
> > > >
> > > > I uploaded a few pictures in the Photos section of my GBS 8200 modifications.
> > > >
> > > > --- In hp8924@yahoogroups.com, "James H Vernetti" wrote:
> > > > >
> > > > > Thank you very much for your time and effort
> > > > >
> > > > > Jim wd0ekr
> > > > >
> > > > >
> > > > > ----- Original Message -----
> > > > > From: willcoele@
> > > > > To: hp8924@yahoogroups.com
> > > > > Sent: Friday, August 12, 2011 10:26 PM

> > > > > Subject: [hp8924] GBS 8200 Converter - A few mods that are needed.
> > > > >
> > > > >
> > > >
> > >
> >
>

# 1291. New Member! and Mic Pin-out

Yahoo group: hp8924
Date: 2013-01-22 04:27:05 UTC
From: Nicholas
Topic: 1291  Message: 1291

My name's Nick and I have recently purchased a 8924c on the ebay and it's on it's way! I'm trying not to be the poor man who pays twice to calibrate radios.

So to avoid spending $300-700 on a new mic, can someone point me to the mic/accy port pin out? A cursory search revealed nothing.

And I'm looking to test some P1225 radios and similar family with no obvious ground. Do I just jerry rig an RF connector to the RF hot and electrical ground? Or just give up and measure over the air?

# 1292. Re: [hp8924] New Member! and Mic Pin-out

Yahoo group: hp8924
Date: 2013-01-22 10:15:46 UTC
From: Ralph Mowery
Topic: 1291  Message: 1292

I can't get it copy the drawing of the connector so I can send it to you, but the 8920  is very close to the 8924c. If you do not know it, look for a manual of the 8920 as that tells more about how to use the set for non cell phone testing.  You will have to watch what the buttons are called as some are labled differantly and are in differant places on the two sets.

If you download the 8920 manual 108920-90221.pdf which is probably in the files section here or you should be able to get it from the Agilent web site, look on page 580 for the picture of the connector.

If you start at the bottom of the connector, there is a wide space. That is the ground tab.  going counter clockwise at about the 5 O'clock position that pin is not connected, about 3 o'clock is the mic in, at 1 o'clock is key out 2, at the top or 12 o'clock is the ground, 11 o'clock is key out 1, 9 o'clock is the key in (the push to talk on the microphone) , the 7 o'clock is not connected and the center pn is not connected.

You do not have to use the special locking connector,but can use a DIN connector that is common on lots of equipment in the US.  The DIN connector is much easier to find.

--- On Mon, 1/21/13, Nicholas <nicholasandre@...m> wrote:

From: Nicholas <nicholasandre@...>
Subject: [hp8924] New Member! and Mic Pin-out
To: hp8924@yahoogroups.com
Date: Monday, January 21, 2013, 11:27 PM

My name's Nick and I have recently purchased a 8924c on the ebay and it's on it's way! I'm trying not to be the poor man who pays twice to calibrate radios.

So to avoid spending $300-700 on a new mic, can someone point me to the mic/accy port pin out? A cursory search revealed nothing.

And I'm looking to test some P1225 radios and similar family with no obvious ground. Do I just jerry rig an RF connector to the RF hot and electrical ground? Or just give up and measure over the air?

---

Yahoo! Groups Links

# 1293. Re: New Member! and Mic Pin-out

Yahoo group: hp8924
Date: 2013-01-22 13:57:15 UTC
From: willcoele@ameritech.net
Topic: 1291  Message: 1293

What's the power level of the RF in/out port? If it's 3 watts, you should use a power attenuator.

Jack
Willco Electronics.

--- In hp8924@yahoogroups.com, "Nicholas" wrote:
>
> My name's Nick and I have recently purchased a 8924c on the ebay and it's on it's way! I'm trying not to be the poor man who pays twice to calibrate radios.
>
> So to avoid spending $300-700 on a new mic, can someone point me to the mic/accy port pin out? A cursory search revealed nothing.
>
> And I'm looking to test some P1225 radios and similar family with no obvious ground. Do I just jerry rig an RF connector to the RF hot and electrical ground? Or just give up and measure over the air?
>

# 1294. Re: New Member! and Mic Pin-out

Yahoo group: hp8924
Date: 2013-01-22 14:29:40 UTC
From: Mark Young
Topic: 1291  Message: 1294

The adapter for a p1225 is readily available via eBay for few dollars, search for p1225 connector, same as gp68 , unscrew antenna, screw in adapter.
Is your 8924 only rated for 3w? If so use an attenuator.
A 20db attenuator rated at 100w will allow you to test up to 100w.
There is a setting to adjust by the 20db so numbers read out properly if you go that route.

Mic pinout is available in manual IIRC, look in files section.

Good luck

Mark
--- In hp8924@yahoogroups.com, "Nicholas" wrote:
>
> My name's Nick and I have recently purchased a 8924c on the ebay and it's on it's way! I'm trying not to be the poor man who pays twice to calibrate radios.
>
> So to avoid spending $300-700 on a new mic, can someone point me to the mic/accy port pin out? A cursory search revealed nothing.
>
> And I'm looking to test some P1225 radios and similar family with no obvious ground. Do I just jerry rig an RF connector to the RF hot and electrical ground? Or just give up and measure over the air?
>

# 1295. Re: New Member! and Mic Pin-out

Yahoo group: hp8924
Date: 2013-01-22 20:30:46 UTC
From: Nicholas
Topic: 1291  Message: 1295

Yup I found the connector. I also ordered a metric boatload of adapters and BNC patch and breakout cables (why can't radios standardize already? There are even multiple versions of RP-SMA...).

I got the 60 watt version which will most likely be sufficient for most of my experiments. I'll look into getting an attenuator if I ever start playing with larger radios.

Watched the video and skimmed the 8920 manual. It will be arriving later this week, so that's when I'll be able to actually dig in.

--- In hp8924@yahoogroups.com, "Mark Young" wrote:
>
>
> The adapter for a p1225 is readily available via eBay for few dollars, search for p1225 connector, same as gp68 , unscrew antenna, screw in adapter.
> Is your 8924 only rated for 3w? If so use an attenuator.
> A 20db attenuator rated at 100w will allow you to test up to 100w.
> There is a setting to adjust by the 20db so numbers read out properly if you go that route.
>
> Mic pinout is available in manual IIRC, look in files section.
>
> Good luck
>
> Mark
> --- In hp8924@yahoogroups.com, "Nicholas" wrote:
> >
> > My name's Nick and I have recently purchased a 8924c on the ebay and it's on it's way! I'm trying not to be the poor man who pays twice to calibrate radios.
> >
> > So to avoid spending $300-700 on a new mic, can someone point me to the mic/accy port pin out? A cursory search revealed nothing.
> >
> > And I'm looking to test some P1225 radios and similar family with no obvious ground. Do I just jerry rig an RF connector to the RF hot and electrical ground? Or just give up and measure over the air?
> >
>

# 1296. Re: New Member! and Mic Pin-out

Yahoo group: hp8924
Date: 2013-01-22 21:34:32 UTC
From: willcoele@ameritech.net
Topic: 1291  Message: 1296

I used a ceramic mic element that's available on eBay. It's sold as a replacement for a D104 microphone and works perfectly on my 8920.

Providing the attenuator can handle the power, a 10db attenuator would bring your 60 watt 8920 to 600 watts. If you have a need to measure 100 watts, You could probably find a 10db, 100w attenuator which would allow 100 watt continuous power measurements. There's a setting in the configure menu that will compensate for the attenuator. I use a 20 db attenuator on my 3 watt 8920 and measuring 100 watts, I don't have to worry about over heating the attenuator or damaging the unit. Keep in mind that the 8920 internal attenuator isn't rated at continuous duty. You can easily damage it with a long term, 60 watt power level. If your only testing hand helds,
there's no worry.

--- In hp8924@yahoogroups.com, "Nicholas" wrote:
>
> Yup I found the connector. I also ordered a metric boatload of adapters and BNC patch and breakout cables (why can't radios standardize already? There are even multiple versions of RP-SMA...).
>
> I got the 60 watt version which will most likely be sufficient for most of my experiments. I'll look into getting an attenuator if I ever start playing with larger radios.
>
> Watched the video and skimmed the 8920 manual. It will be arriving later this week, so that's when I'll be able to actually dig in.
>
> --- In hp8924@yahoogroups.com, "Mark Young" wrote:

> >

# 1297. Re: New Member! and Mic Pin-out

Yahoo group: hp8924
Date: 2013-01-22 23:41:41 UTC
From: Nicholas
Topic: 1291  Message: 1297

It will beep at me if it's getting too toasty right?

So I'll look for an attenuator and a Return Loss Bridge. I'll ask the local swap net.

Also, I see there are 3 different pins labeled "Key" something on the mic connector. Which one is a PTT? Or is there? How exactly does the transmission feature work? It appears I can use this as an SSB transmitter right?

--- In hp8924@yahoogroups.com, "willcoele@..." wrote:
>
> I used a ceramic mic element that's available on eBay. It's sold as a replacement for a D104 microphone and works perfectly on my 8920.
>
> Providing the attenuator can handle the power, a 10db attenuator would bring your 60 watt 8920 to 600 watts. If you have a need to measure 100 watts, You could probably find a 10db, 100w attenuator which would allow 100 watt continuous power measurements. There's a setting in the configure menu that will compensate for the attenuator. I use a 20 db attenuator on my 3 watt 8920 and measuring 100 watts, I don't have to worry about over heating the attenuator or damaging the unit. Keep in mind that the 8920 internal attenuator isn't rated at continuous duty. You can easily damage it with a long term, 60 watt power level. If your only testing hand helds,
> there's no worry.
>
> --- In hp8924@yahoogroups.com, "Nicholas" wrote:
> >
> > Yup I found the connector. I also ordered a metric boatload of adapters and BNC patch and breakout cables (why can't radios standardize already? There are even multiple versions of RP-SMA...).
> >
> > I got the 60 watt version which will most likely be sufficient for most of my experiments. I'll look into getting an attenuator if I ever start playing with larger radios.
> >
> > Watched the video and skimmed the 8920 manual. It will be arriving later this week, so that's when I'll be able to actually dig in.
> >
> > --- In hp8924@yahoogroups.com, "Mark Young" wrote:
>
> > >
>

# 1298. Re: [hp8924] Re: New Member! and Mic Pin-out

Yahoo group: hp8924
Date: 2013-01-23 00:01:56 UTC
From: Ralph Mowery
Topic: 1291  Message: 1298

You may want to look for a Mini-Circuits ZFDC-20-5.  This makes a good return loss bridge to tune duplexers.  While not as accurate as some of the more costly units when you pass about 25 or so db of return loss, it will work fine unless you are doing exect measurments of very low return loss.

If you over heat the input it will let you know.  I think you said you had a 60 watt uint. It should take 100 watts for about 10 seconds out of every minuit without damage.

One of the key pins on the 8924 is where you key the mic to turn on the transmitter section of the 8924.  The others are where the 8924c turns on the transmitter under test.

I think the 8924 uses DSB instead of SSB to transmit with.

--- On Tue, 1/22/13, Nicholas <nicholasandre@...> wrote:

From: Nicholas <nicholasandre@...>
Subject: [hp8924] Re: New Member! and Mic Pin-out
To: hp8924@yahoogroups.com
Date: Tuesday, January 22, 2013, 6:41 PM

It will beep at me if it's getting too toasty right?

So I'll look for an attenuator and a Return Loss Bridge. I'll ask the local swap net.

Also, I see there are 3 different pins labeled "Key" something on the mic connector. Which one is a PTT? Or is there? How exactly does the transmission feature work? It appears I can use this as an SSB transmitter right?

# 1299. (no subject)

Yahoo group: hp8924
Date: 2013-01-23 00:01:55 UTC
From: Pedro Castillo
Topic: 1299  Message: 1299

http://nidaofset.com/myway.php
By Pedro Castillouylu

# 1300. Email Hacked

Yahoo group: hp8924
Date: 2013-01-23 00:44:27 UTC
From: hr2pac
Topic: 1300  Message: 1300

My email account was hacked! sorry for the noise.

Pedro.

# 1301. Re: Email Hacked

Yahoo group: hp8924
Date: 2013-01-23 03:43:35 UTC
From: Nicholas
Topic: 1300  Message: 1301

There's a tremendous amount of this happening right now...

--- In hp8924@yahoogroups.com, "hr2pac" wrote:
>
> My email account was hacked! sorry for the noise.
>
> Pedro.
>

# 1302. Tracking Generator vs RF Tools Swept Return Loss

Yahoo group: hp8924
Date: 2013-01-24 05:09:43 UTC
From: Nicholas
Topic: 1302  Message: 1302

So basically, do I need to purchase the RF Tools SRAM card?

The so called "Tracking Generator" appears to be built in to the 8924C and will allow me to tune antennas and duplexers (especially with this magical Return Loss Bridge that I'm looking for). Correct?

The RF Tools card has a program called Swept Return Loss. Is this different from the Tracking Generator? Do I need/want it?

# 1303. Re: [hp8924] Tracking Generator vs RF Tools Swept Return Loss

Yahoo group: hp8924
Date: 2013-01-24 09:52:25 UTC
From: Ralph Mowery
Topic: 1302  Message: 1303

No, you do not need the RF Tools card/program.  If you have a memory card, you can down load the program off the internet.  The memory card just holds a program that is written in a language similar to the old computer BASIC language with commands especially for the test set,  You can do everything manually the card will do.

Actually, you can not use the program to tune a duplexer.  The return loss program on the card is just a one shot sweep and not a real time program, if that makes sense.  In other words, after you have a system tuned up, or mainly looking at an antenna system, you run the RF tools return loss program and get a snap shot of the system.  If you do not like what you see, you would have to turn a screw on the duplexer some and run the program again.  Not a good way to tune anything and it would take a week or a year to tune a duplexer.

To tune a duplexer, all you need is a return loss bridge, dummy load and the 8924C.  The bridge is just a simple SWR bridge. The dummy load does need to be a good one that is 50 ohms.  All you are doing is tuning the duplexer for minimum SWR.  SWR and return loss are really the same thing, just stated in differant units.  The bridge does allow you to tune th duplexer using very low power so you do not creat arcing inside the cans.  You can also see a broad range of frequencies so you can tell if there is anything odd going on as you tune the duplexer.

I found this a while back and the Minicircuit bridge is plenty good enough to tune a duplexer.  It is less than $ 100 instead of around $ 300 for some of the others.  I bought 2 off ebay a while back and use one and gave the other to another local ham.

Using the 8924 with a Mini-Circuits ZFDC-20-5 to measure return loss.

The first thing to do is to configure the 8924 for "duplex out" and "antenna in"and set up the tracking generator for no offset. To measure return loss hook the "duplex out" on the generator to the "out" connection of the directional coupler. Then hook the "antenna in" port to "couple" of the directional coupler. You can now establish the base line on the spectrum analyzer as this will show infinite SWR or minimum return loss. It should read about 20 db less than what you are generating. Once you've done this connect the load or device under test to the "in" port of the coupler. The space under the base line on the spectrum analyzer is the return loss in negative db. (Note: this may be counter intuitive to some but we're using the directional coupler to measure what's coming back as apposed to what's going out which is what the labels on it are for.)

--- On Thu, 1/24/13, Nicholas <nicholasandre@...> wrote:

From: Nicholas <nicholasandre@lycos.com>
Subject: [hp8924] Tracking Generator vs RF Tools Swept Return Loss
To: hp8924@yahoogroups.com
Date: Thursday, January 24, 2013, 12:09 AM

So basically, do I need to purchase the RF Tools SRAM card?

The so called "Tracking Generator" appears to be built in to the 8924C and will allow me to tune antennas and duplexers (especially with this magical Return Loss Bridge that I'm looking for). Correct?

The RF Tools card has a program called Swept Return Loss. Is this different from the Tracking Generator? Do I need/want it?

# 1304. Re: [hp8924] Tracking Generator vs RF Tools Swept Return Loss

Yahoo group: hp8924
Date: 2013-01-24 17:49:18 UTC
From: Robert Atkinson
Topic: 1302  Message: 1304

Hi,
While I agree that using the spectrum analyser and tracking generator built into the 8924C with an RLB is the best way of ADJUSTING a diplexer or filter,  RF Tools is better  for MEASURING them. The RF Tools software allows the normalisation (calibration) of the RLB over the frequency range of interest. This allows for accurate measurements without factoring in (or even knowing) the losses and coupling factor of the RLB. This means that a homemade RLB is just as usable as a commercial one. A "hybrid" (transformer based) power divider/coupler can be used as a RLB with slightly reduced performance but lower cost. A 4 way splitter will give better isolation, just terminate the two unused ports with 50R loads.
The HP RF Tools also give other functionality such as a monitoring receiver.
Declaration of interest, I sell RF Tools on a PROM card on ebay. I offer the same card for list members at a discounted price.

Robert G8RPI.

---
From: Ralph Mowery <ku4pt@...>
To: hp8924@yahoogroups.com
Sent: Thursday, 24 January 2013, 9:52
Subject: Re: [hp8924] Tracking Generator vs RF Tools Swept Return Loss

No, you do not need the RF Tools card/program.  If you have a memory card, you can down load the program off the internet.  The memory card just holds a program that is written in a language similar to the old computer BASIC language with commands especially for the test set,  You can do everything manually the card will do.

Actually, you can not use the program to tune a duplexer.  The return loss program on the card is just a one shot sweep and not a real time program, if that makes sense.  In other words, after you have a system tuned up, or mainly looking at an antenna system, you run the RF tools return loss program and get a snap shot of the system.  If you do not like what you see, you would have to turn a screw on the duplexer some and run the program again.  Not a good way to tune anything and it would take a week or a year to tune a duplexer.

To tune a duplexer, all you need is a return loss bridge, dummy load and the 8924C.  The bridge is just a simple SWR bridge. The dummy load does need to be a good one that is 50 ohms.  All you are doing is tuning the duplexer for minimum SWR.  SWR and return loss are really the same thing, just stated in differant units.  The bridge does allow you to tune th duplexer using very low power so you do not creat arcing inside the cans.  You can also see a broad range of frequencies so you can tell if there is anything odd going on as you tune the duplexer.

I found this a while back and the Minicircuit bridge is plenty good enough to tune a duplexer.  It is less than $ 100 instead of around $ 300 for some of the others.  I bought 2 off ebay a while back and use one and gave the other to another local ham.

Using the 8924 with a Mini-Circuits ZFDC-20-5 to measure return loss.

The first thing to do is to configure the 8924 for "duplex out" and "antenna in"and set up the tracking generator for no offset. To measure return loss hook the "duplex out" on the generator to the "out" connection of the directional coupler. Then hook the "antenna in" port to "couple" of the directional coupler. You can now establish the base line on the spectrum analyzer as this will show infinite SWR or minimum return loss. It should read about 20 db less than what you are generating. Once you've done this connect the load or device under test to the "in" port of the coupler. The space under the base line on the spectrum analyzer is the return loss in negative db. (Note: this may be counter intuitive to some but we're using the directional coupler to measure what's coming back as apposed to what's going out which is what the labels on it are for.)

--- On Thu, 1/24/13, Nicholas <nicholasandre@lycos.com> wrote:

>From: Nicholas <nicholasandre@...>
>Subject: [hp8924] Tracking Generator vs RF Tools Swept Return Loss
>To: hp8924@yahoogroups.com
>Date: Thursday, January 24, 2013, 12:09 AM
>
>
>So basically, do I need to purchase the RF Tools SRAM card?
>
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>
>The RF Tools card has a program called Swept Return Loss. Is this different from the Tracking Generator? Do I need/want it?
>
>

# 1305. Re: Tracking Generator vs RF Tools Swept Return Loss

Yahoo group: hp8924
Date: 2013-01-24 19:18:59 UTC
From: Nicholas
Topic: 1302  Message: 1305

Thanks all it makes sense now.

Could you describe in more detail the use of a 4 way splitter as a makeshift RLB?

I would need a 50 Ohm variety, not the 75R cable splitters, correct?

--- In hp8924@yahoogroups.com, Robert Atkinson wrote:
>
> Hi,
> While I agree that using the spectrum analyser and tracking generator built into the 8924C with an RLB is the best way of ADJUSTING a diplexer or filter,Â  RF Tools is betterÂ for MEASURING them. The RF Tools software allows the normalisation (calibration) of the RLB over the frequency range of interest. This allows for accurate measurements without factoring in (or even knowing) the losses and coupling factor of the RLB. This means that a homemade RLB is just as usable as a commercial one. A "hybrid" (transformer based) power divider/coupler can be used as a RLB with slightly reduced performance but lower cost. A 4 way splitter will give better isolation, just terminate the two unused ports with 50R loads.
> The HP RF Tools also give other functionality such as a monitoring receiver.
> Declaration of interest, I sell RF Tools on a PROM card on ebay. I offer the same card for list members at a discounted price.
>
> Robert G8RPI.
>
>
>
>
> _____
> From: Ralph Mowery
> To: hp8924@yahoogroups.com
> Sent: Thursday, 24 January 2013, 9:52
> Subject: Re: [hp8924] Tracking Generator vs RF Tools Swept Return Loss
>
>
> Â
>
> No, you do not need the RF Tools card/program.Â  If you have a memory card, you can down load the program off the internet.Â  The memory card just holds a program that is written in a language similar to the old computer BASIC language with commands especially for the test set,Â  You can do everything manually the card will do.
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again.Â  Not a good way to tune anything and it would take a week or a yearÂ to tune a duplexer.
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> I found this a while back and the Minicircuit bridge is plenty good enough to tune a duplexer.Â  It is less than $ 100 instead of around $ 300 for some of the others.Â  I bought 2 off ebay a while back and use one and gave the other to another local ham.
> Â
> Â
> Using the 8924 with a Mini-Circuits ZFDC-20-5 to measure return loss.
> Â
> The first thing to do is to configure the 8924 for "duplex out" and
> "antenna in"and set up the tracking generator for no offset. To measure
> return loss hook the "duplex out" on the generator to the "out" connection
> of the directional coupler. Then hook the "antenna in" port to "couple" of
> the directional coupler. You can now establish the base line on the spectrum
> analyzer as this will show infinite SWR or minimum return loss. It should
> read about 20 db less than what you are generating. Once you've done this
> connect the load or device under test to the "in" port of the coupler. The
> space under the base line on the spectrum analyzer is the return loss in
> negative db. (Note: this may be counter intuitive to some but we're using
> the directional coupler to measure what's coming back as apposed to what's
> going out which is what the labels on it are for.)
>
>
> --- On Thu, 1/24/13, Nicholas wrote:
>
>
> >From: Nicholas
> >Subject: [hp8924] Tracking Generator vs RF Tools Swept Return Loss
> >To: hp8924@yahoogroups.com
> >Date: Thursday, January 24, 2013, 12:09 AM
> >
> >
> >So basically, do I need to purchase the RF Tools SRAM card?
> >
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> >
> >The RF Tools card has a program called Swept Return Loss. Is this different from the Tracking Generator? Do I need/want it?
> >
> >

>

# 1306. WTB RF Tools on a pcmcia card

Yahoo group: hp8924
Date: 2013-01-25 00:02:10 UTC
From: kc7rjk@comcast.net
Topic: 1306  Message: 1306
Attachments: 2 described; binary payloads are missing from this source WARC

[ Attachment content not displayed ]

# 1307. 8924C Power Supply

Yahoo group: hp8924
Date: 2013-01-25 07:17:25 UTC
From: Glenn Little WB4UIV
Topic: 1307  Message: 1307

Has anyone located a schematic for the power supply in the 8924C?
I just got bought a 8924C that is in need of some work.
Before I reinvent the wheel by reverse engineering the supply, I
thought that I would ask here.
Is there a list of capacitors for the supply?
When I repair my supply, if there is no capacitor list, I will generate one.
If there is no schematic, when I get time, I will rectify that situation.
The supply in question is part number 0950-2952.
This is marked with HP name on the case and on the board.
It might have been a contract design and build.

Thanks
73
Glenn
WB4UIV

# 1308. Re: [hp8924] WTB RF Tools on a pcmcia card

Yahoo group: hp8924
Date: 2013-01-25 12:26:37 UTC
From: Robert Atkinson
Topic: 1308  Message: 1308

Hi Ross,
I can do you a PROM card with RF Tools (11807E) for $60 including shipping. This is the same as my ebay item No. 261146747019 If you are interested please pay by PayPal to this email address or ask and I'll send you a payment request.

Regards,
Robert Atkinson G8RPI.

---
From: "kc7rjk@..." <kc7rjk@...>
To: hp8924@yahoogroups.com
Sent: Friday, 25 January 2013, 0:02
Subject: [hp8924] WTB RF Tools on a pcmcia card

I've owned a 8924c with an Eagle RLB for years now and very happy with the machine. All I hear are good things about rf tools and with the new roll cart for the beast I want to check some old cable runs. I've seen many cards offered months back but was lacking petty cash back then. Accepting any reasonable offers. Thanks

Regards,
Ross kc7rjk

Sent from my Verizon Wireless 4GLTE smartphone

# 1309. Re: [hp8924] Re: Tracking Generator vs RF Tools Swept Return Loss

Yahoo group: hp8924
Date: 2013-01-25 12:52:23 UTC
From: Robert Atkinson
Topic: 1302  Message: 1309

Hi,
If you look at the circuit for a 2 way transformer hybrid divider and a transformer style RLB you will see they are identical.  To use a two port divider as an RLB you connect the unknown to the common port and the RF source and detector to the divided port. A 4 way is 3 2 ways with the outs of No1 connected to the commons of 2 & 3 this gives added isolation. connect the unknown to the common, the RF source to output 1, the detector to output 2 and terminate the two unused ports with 50R loads. Note the loads don't have to be higjh quality, a small dummy load is OK. Yes the splitter impedance determines the reference impedance. You could dissasemble a cheap CATV splitter and change the 75R resistors to 50R if you wanted to.

See

---
From: Nicholas <nicholasandre@...>
To: hp8924@yahoogroups.com
Sent: Thursday, 24 January 2013, 19:18
Subject: [hp8924] Re: Tracking Generator vs RF Tools Swept Return Loss

Thanks all it makes sense now.

Could you describe in more detail the use of a 4 way splitter as a makeshift RLB?

I would need a 50 Ohm variety, not the 75R cable splitters, correct?

--- In mailto:hp8924%40yahoogroups.com, Robert Atkinson wrote:
>
> Hi,
> While I agree that using the spectrum analyser and tracking generator built into the 8924C with an RLB is the best way of ADJUSTING a diplexer or filter,Â  RF Tools is betterÂ for MEASURING them. The RF Tools software allows the normalisation (calibration) of the RLB over the frequency range of interest. This allows for accurate measurements without factoring in (or even knowing) the losses and coupling factor of the RLB. This means that a homemade RLB is just as usable as a commercial one. A "hybrid" (transformer based) power divider/coupler can be used as a RLB with slightly reduced performance but lower cost. A 4 way splitter will give better isolation, just terminate the two unused ports with 50R loads.
> The HP RF Tools also give other functionality such as a monitoring receiver.
> Declaration of interest, I sell RF Tools on a PROM card on ebay. I offer the same card for list members at a discounted price.
>
> Robert G8RPI.
>
>
>
>

> _____
> From: Ralph Mowery
> To: mailto:hp8924%40yahoogroups.com
> Sent: Thursday, 24 January 2013, 9:52
> Subject: Re: [hp8924] Tracking Generator vs RF Tools Swept Return Loss
>
>
> Â
>
> No, you do not need the RF Tools card/program.Â  If you have a memory card, you can down load the program off the internet.Â  The memory card just holds a program that is written in a language similar to the old computer BASIC language with commands especially for the test set,Â  You can do everything manually the card will do.
> Â
> Actually, you can not use the program to tune a duplexer.Â  The return loss program on the card is just a one shot sweep and not a real time program, if that makes sense.Â  In other words, after you have a system tuned up, or mainly looking at an antenna system, you run the RF tools return loss program and get a snap shot of the system.Â  If you do not like what you see, you would have to turn a screw on the duplexer some and run the program again.Â  Not a good way to tune anything and it would take a week or a yearÂ to tune a duplexer.
> Â
> To tune a duplexer, all you need is a return loss bridge, dummy loadÂ and the 8924C.Â  The bridge is just a simple SWR bridge.Â The dummy load does need to be a good oneÂ that is 50 ohms.Â  Â All you are doing is tuning the duplexer for minimum SWR.Â  SWR and return loss are really the same thing, just stated in differant units.Â  The bridge does allow you to tune th duplexer using very low power so you do not creat arcing inside the cans.Â  You can also see a broad range of frequencies so you can tell if there is anything odd going on as you tune the duplexer.
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> I found this a while back and the Minicircuit bridge is plenty good enough to tune a duplexer.Â  It is less than $ 100 instead of around $ 300 for some of the others.Â  I bought 2 off ebay a while back and use one and gave the other to another local ham.
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> Â
> Using the 8924 with a Mini-Circuits ZFDC-20-5 to measure return loss.
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> The first thing to do is to configure the 8924 for "duplex out" and
> "antenna in"and set up the tracking generator for no offset. To measure
> return loss hook the "duplex out" on the generator to the "out" connection
> of the directional coupler. Then hook the "antenna in" port to "couple" of
> the directional coupler. You can now establish the base line on the spectrum
> analyzer as this will show infinite SWR or minimum return loss. It should
> read about 20 db less than what you are generating. Once you've done this
> connect the load or device under test to the "in" port of the coupler. The
> space under the base line on the spectrum analyzer is the return loss in
> negative db. (Note: this may be counter intuitive to some but we're using
> the directional coupler to measure what's coming back as apposed to what's
> going out which is what the labels on it are for.)
>

>
> --- On Thu, 1/24/13, Nicholas wrote:
>
>
> >From: Nicholas
> >Subject: [hp8924] Tracking Generator vs RF Tools Swept Return Loss
> >To: mailto:hp8924%40yahoogroups.com
> >Date: Thursday, January 24, 2013, 12:09 AM
> >
> >
> >So basically, do I need to purchase the RF Tools SRAM card?
> >
> >The so called "Tracking Generator" appears to be built in to the 8924C and will allow me to tune antennas and duplexers (especially with this magical Return Loss Bridge that I'm looking for). Correct?
> >
> >The RF Tools card has a program called Swept Return Loss. Is this different from the Tracking Generator? Do I need/want it?
> >
> >
>

http://www.vk2zay.net/article/179
and
http://kl7r.ham-radio.ch/rtnloss/rtnloss.htm

# 1310. Re: 8924C Power Supply

Yahoo group: hp8924
Date: 2013-01-25 14:26:05 UTC
From: jyelmgren
Topic: 1307  Message: 1310

There is some information in the files area.
Typically what fails in the supply is the 15VDC "standby" supply due to a cap failure on the associated riser board.
The failure is easy to determine since you will not have the green LED that can be seen through the bottom rear corner of the power supply.

The 15VDC supply schematic is pretty straight forward and usually the PWM IC data sheet is all that is needed.

Main problem is that there are about two thousand screws ( OK maybe it's only 1,000 ) to get to the failed components.

If the failure is more involved there was a good amount of used tested supplies on Ebay ..have not looked recently.

--- In hp8924@yahoogroups.com, Glenn Little WB4UIV wrote:
>
> Has anyone located a schematic for the power supply in the 8924C?
> I just got bought a 8924C that is in need of some work.
> Before I reinvent the wheel by reverse engineering the supply, I
> thought that I would ask here.
> Is there a list of capacitors for the supply?
> When I repair my supply, if there is no capacitor list, I will generate one.
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> The supply in question is part number 0950-2952.
> This is marked with HP name on the case and on the board.
> It might have been a contract design and build.
>
> Thanks
> 73
> Glenn
> WB4UIV
>

# 1311. Re: Tracking Generator vs RF Tools Swept Return Loss

Yahoo group: hp8924
Date: 2013-01-25 16:56:50 UTC
From: Nicholas
Topic: 1302  Message: 1311

Thank you kindly.

Off to the hardware store!

--- In hp8924@...m, Robert Atkinson wrote:
>
> Hi,
> If you look at the circuit for a 2Â way transformer hybrid divider and a transformer styleÂ RLB you will see they are identical.Â  To use a two port divider as an RLB you connect the unknown to the common port and the RF sourceÂ and detector to the divided port. A 4 way is 3 2 ways with the outs of No1 connected to the commons of 2 & 3 this gives added isolation. connect the unknown to the common, the RF source to output 1, the detector to output 2 and terminate the two unused ports with 50R loads. Note the loads don't have to be higjh quality, a small dummy load is OK. Yes the splitter impedance determines the reference impedance. You could dissasemble a cheap CATV splitter and change the 75R resistors to 50R if you wanted to.
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> See
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> _____
> From: Nicholas
> To: hp8924@yahoogroups.com
> Sent: Thursday, 24 January 2013, 19:18
> Subject: [hp8924] Re: Tracking Generator vs RF Tools Swept Return Loss
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> Â
> Thanks all it makes sense now.
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> Could you describe in more detail the use of a 4 way splitter as a makeshift RLB?
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> I would need a 50 Ohm variety, not the 75R cable splitters, correct?
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> --- In mailto:hp8924%40yahoogroups.com, Robert Atkinson wrote:
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> > The HP RF Tools also give other functionality such as a monitoring receiver.
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> > Robert G8RPI.
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> > _____
> > From: Ralph Mowery
> > To: mailto:hp8924%40yahoogroups.com
> > Sent: Thursday, 24 January 2013, 9:52
> > Subject: Re: [hp8924] Tracking Generator vs RF Tools Swept Return Loss
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> > the directional coupler to measure what's coming back as apposed to what's
> > going out which is what the labels on it are for.)
> >
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> > --- On Thu, 1/24/13, Nicholas wrote:
> >
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> > >From: Nicholas
> > >Subject: [hp8924] Tracking Generator vs RF Tools Swept Return Loss
> > >To: mailto:hp8924%40yahoogroups.com
> > >Date: Thursday, January 24, 2013, 12:09 AM
> > >
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> http://www.vk2zay.net/article/179
> andÂ
> http://kl7r.ham-radio.ch/rtnloss/rtnloss.htm
>

# 1312. Re: [hp8924] WTB RF Tools on a pcmcia card

Yahoo group: hp8924
Date: 2013-01-25 18:15:19 UTC
From: kc7rjk@comcast.net
Topic: 1312  Message: 1312
Attachments: 2 described; binary payloads are missing from this source WARC

[ Attachment content not displayed ]

# 1313. error 0040 on startup

Yahoo group: hp8924
Date: 2013-02-10 12:46:14 UTC
From: andersg.stenberg
Topic: 1313  Message: 1313

I have a HP8921A with error 0040 on startup
Looks to be something with the timer or real time clock
When I check the LEDs will flash diode 2 and 3. Since LED lights 1 steady and then LED 1 and 2 on solid. Then all the lights for a while and then go out.
A8 memory card is upgraded with extended memory.
Is it A8 card that is faulty or ...
Does anyone have such a card.
Thanks in advance / Goran

# 1314. Looking to purchase...

Yahoo group: hp8924
Date: 2013-02-11 04:51:27 UTC
From: nolimit3o3
Topic: 1314  Message: 1314

Ive been looking to purchase a service monitor and like most cant afford a $15,000-50,000 peice of bench equipment. So ive been looking at this 8924c, a IFR 1200s and a Motorola R2100D. I mainly do work on amateur radio and some commercial equipment, as well as the occasional CB, FRS etc radio. I read somewhere that the 8924 may be my best bet for the money and as i dont have much to spend i was also wondering if maybe for what my needs are, this may be over kill? I do like the idea of being able to connect a external monitor to it though im more concerned about functionality and use for my needs that being able to make my eyes happy lol.

Thanks for any help in making a decission and any information/input anyone may have. Sorry if this is semi off subject too, though ive been leaning twoards this HP, also whats a fair price for the 8924C?

Thanks agian,
David

# 1315. Re: [hp8924] Looking to purchase...

Yahoo group: hp8924
Date: 2013-02-11 05:09:21 UTC
From: Pedro Castillo
Topic: 1314  Message: 1315

You and I are in the same situation, I have been talking back and forth with Rick Bowman @Amtronix but I think I have made a decision to buy the HP8924C from him http://www.amtronix.com/hp8924c60.htm he specializes in this units, read up and do your all of your homework.

Pete.

Enviado desde mi iPad

El 10/02/2013, a las 10:51 p.m., "nolimit3o3" <nolimit3o3@...> escribió:

> Ive been looking to purchase a service monitor and like most cant afford a $15,000-50,000 peice of bench equipment. So ive been looking at this 8924c, a IFR 1200s and a Motorola R2100D. I mainly do work on amateur radio and some commercial equipment, as well as the occasional CB, FRS etc radio. I read somewhere that the 8924 may be my best bet for the money and as i dont have much to spend i was also wondering if maybe for what my needs are, this may be over kill? I do like the idea of being able to connect a external monitor to it though im more concerned about functionality and use for my needs that being able to make my eyes happy lol.
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>
> Thanks agian,
> David
>
>

# 1316. Re: [hp8924] Looking to purchase...

Yahoo group: hp8924
Date: 2013-02-11 07:41:11 UTC
From: Robert Atkinson
Topic: 1314  Message: 1316

Hi David,
The only real downside to the 8024C is it's size. But that's not too much of an issue for bench work as any collection of separate RF gen, 2x AF gen, power meter, modulation meter, receiver, spectrum analyser and tracking genarator you could buy for the same price would be much bigger :-). I can't comment on the Motorola, but I've used the IFR 1200S (and other of their units) and it's not in the same league. It's predominatly an analogue unit apart from the counter and RF gen. Unless you need the portability I would not consider it. If you do need portability, hold out for a 8920A/B. Another option, depending on local availability and price is the Marconi 2955.

Robert G8RPI.

---
From: nolimit3o3 <nolimit3o3@...>
To: hp8924@yahoogroups.com
Sent: Monday, 11 February 2013, 4:51
Subject: [hp8924] Looking to purchase...

Ive been looking to purchase a service monitor and like most cant afford a $15,000-50,000 peice of bench equipment. So ive been looking at this 8924c, a IFR 1200s and a Motorola R2100D. I mainly do work on amateur radio and some commercial equipment, as well as the occasional CB, FRS etc radio. I read somewhere that the 8924 may be my best bet for the money and as i dont have much to spend i was also wondering if maybe for what my needs are, this may be over kill? I do like the idea of being able to connect a external monitor to it though im more concerned about functionality and use for my needs that being able to make my eyes happy lol.

Thanks for any help in making a decission and any information/input anyone may have. Sorry if this is semi off subject too, though ive been leaning twoards this HP, also whats a fair price for the 8924C?

Thanks agian,
David

# 1317. Re: [hp8924] Looking to purchase...

Yahoo group: hp8924
Date: 2013-02-11 10:42:14 UTC
From: Ralph Mowery
Topic: 1314  Message: 1317

I have a 8924c and have used the  1200 in the past.  The 8924c is way beter than the 1200 if you do not need to carry the 8924c out to a job.  The 8924c weighs in at 60 pounds. There is another HP called a 8920 B that does what the 8924c will do if you get all the options for it and it is only about 40 pounds.  Only problem is the 8924c about $ 1600 or less and the 8920b is about 3 to 5 thousand.  I bought a 8924c off ebay for about $ 850 shipped and spent another $ 150 to buy an input attuenuator option to take it from 3 watts input to 60 watts input. It will handle 100 watts input for about 10 seconds with that option.
I am just a ham and only use the 8924c for a hobby so price was my main issue.  Even if it wasn't I would still get one if I did not carry it to the field.

The 8924c manual leaves out much, but there are free downloads for the 8920 manual.  There is some differances in the buttons and the layout, but if you understand that it will get you on the right track. Because the 8924c does so much , plan on spending about 2 weeks getting to know about it.  Also look on utube for some vidios of an E8285. That set is very similar to the 8924c.

Here is a place that has some for sell that includes a new CRT display and calibration for about $ 1600.  Also lots of information about them.
http://www.amtronix.com/usequip1.htm
While there, look around the site as there is some good information on the unit.

I have not delt with that place, but have heard nothing but good about it.

I bought a tool cart from Sears to place my 8924c on.  It has 5 draws an rolls around.  I think I got it on sell for just over $ 100.

If you are a ham and want to talk about it on the air, we can set up a sched and I will talk with you about it or help you get it going .

One other question that we need to ask you is have you ever used any service monitors ?

--- On Sun, 2/10/13, nolimit3o3 <nolimit3o3@...> wrote:

From: nolimit3o3 <nolimit3o3@...>
Subject: [hp8924] Looking to purchase...
To: hp8924@yahoogroups.com
Date: Sunday, February 10, 2013, 11:51 PM

Ive been looking to purchase a service monitor and like most cant afford a $15,000-50,000 peice of bench equipment.  So ive been looking at this 8924c, a IFR 1200s and a Motorola R2100D.  I mainly do work on amateur radio and some commercial equipment, as well as the occasional CB, FRS etc radio.  I read somewhere that the 8924 may be my best bet for the money and as i dont have much to spend i was also wondering if maybe for what my needs are, this may be over kill?  I do like the idea of being able to connect a external monitor to it though im more concerned about functionality  and use for my needs that being able to make my eyes happy lol.

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Thanks agian,
David

# 1318. Re: Looking to purchase...

Yahoo group: hp8924
Date: 2013-02-11 12:59:18 UTC
From: nolimit3o3
Topic: 1314  Message: 1318

Wow, first off, thank you all for the fast and detailed replys, It looks like i have some thinking to do and saving (money) as well lol. I would like something a tad smaller hense the reason i was looking at the 1200s, but i suppose if the HP does more and is a better unit i could find a way to make room for it.

I used to be a ham back in the early 90's, then i kind of fell out of radio for a number of years. Im hoping to hit the VEC this week actually to take the test again.. Anyhow, yes i have used a service monintor before, but we're talking some old stuff CE-3 and CE-5's, looks as if i may be waiting a tad longer to purchase now as im about 500 shy of 1600 and recently unemployed. I was at a ham fest yesterday and found a CE-6 for $200 but its old, hasnt been calibrated in 20 years and didnt have all the preselectors i would need so i passed on it. Anyway maybe in the coming weeks i'll have my new call and i'll see if we cant meet up on IRLP or something of the like :)

Im off to go apply for jobs for the day, thanks again to all who replied, i have considerably more information now and have some thinking and researching to do now :)

Thanks again!
David

--- In hp8924@yahoogroups.com, Ralph Mowery wrote:
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# 1319. Re: Looking to purchase...

Yahoo group: hp8924
Date: 2013-02-11 14:57:23 UTC
From: nolimit3o3
Topic: 1314  Message: 1319

Yeah Pete, ive been reading for hours now it seems lol, i think im with you on this decission. Im not really planning on doing alot of portable work so i can acomodate the size and as stated before, saves space in the sense you dont have a bench full of equipment which was one of the reasons i was going this route. I have limited space, but all in all, i think this unit will do all i need to. Just need to sell off some more stuff so i can get the remaining money needed for it lol.

I tried looking around and im finding pleanty of these units uncalibrated with used crt's and are about the same if not more than what Amtronix wants for a calibrated refurbished unit and offers a warranty. All that is worth it to me to save up the extra money, i just hate being so damn impatient lol.

David

--- In hp8924@yahoogroups.com, Pedro Castillo wrote:
>
> You and I are in the same situation, I have been talking back and forth with Rick Bowman @Amtronix but I think I have made a decision to buy the HP8924C from him http://www.amtronix.com/hp8924c60.htm he specializes in this units, read up and do your all of your homework.
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> Pete.
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> Enviado desde mi iPad
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> El 10/02/2013, a las 10:51 p.m., "nolimit3o3" escribiÃ³:
>
> > Ive been looking to purchase a service monitor and like most cant afford a $15,000-50,000 peice of bench equipment. So ive been looking at this 8924c, a IFR 1200s and a Motorola R2100D. I mainly do work on amateur radio and some commercial equipment, as well as the occasional CB, FRS etc radio. I read somewhere that the 8924 may be my best bet for the money and as i dont have much to spend i was also wondering if maybe for what my needs are, this may be over kill? I do like the idea of being able to connect a external monitor to it though im more concerned about functionality and use for my needs that being able to make my eyes happy lol.
> >
> > Thanks for any help in making a decission and any information/input anyone may have. Sorry if this is semi off subject too, though ive been leaning twoards this HP, also whats a fair price for the 8924C?
> >
> > Thanks agian,
> > David
> >
> >
>

# 1320. Re: [hp8924] Re: Looking to purchase...

Yahoo group: hp8924
Date: 2013-02-11 15:00:29 UTC
From: Ralph Mowery
Topic: 1314  Message: 1320

Good luck to you on finding a job.

There is no way to compair the newer service monitors to the old CE-3 type.  The newer ones are more computer than anything else.  Nomatter what you get in the modern line, be prepaired to spend a lot of time to learn how to use it. It is like getting out of your car and stepping into a modern jet airplane cockpit.

I worked as an instrument technician and had over 20 years learning to test and setup instruments used in industry,so learning the 8924c was not too bad, but still took a while of just playing with it.  I did repair some CB radios back in the 70's to pick up some extra money and learn how to work with RF equipment.  Probably repaired an average of 5 per week in my spair time at home as I had a regular job.  I did that for several years with not much more than a frequency counter, old heathkit signal generator, and Heathkit VTVM. The circuits were simple back then.  Then the price of new ones dropped out the bottom and it was cheaper to buy a new one than to get it repaired.

I retired about a year ago and now I play with the ham radio. I have been licensed for about 40 years and did pick up a FCC first class license when I was 22 years old,but never worked where I needed it.  I have been keeping up a couple of ham repeaters for about 30 years.  Mostly with outdated equipment or borowed equipment.  Found out about the 8924C, so bought one. I got it off ebay and have less than $ 1000 in it.  As it is not used for comercial work, I did not care about it having a certified calibration.  It is still probably beter calibrated than most service monitors.  I can tune in WWV and the counter shows it to be right on 20 mhz to the last Hz most of the time.  Can not say it made the repeaters work any beter, but I now know they are right and have good numbers to go by instead of just saying the repeater seems to hear as well as another rig I was compairing it to.
It is a pain to drag the 8924c to the repeater, but atleast it is in a small building on the ground and I can park less than 50 feet away from it.

If you do get an 8924c, be sure to look over a lot of the older messages here for some helpful hints.  You can down load some of the manuals here also.  As I said, the 8924C manual is almost useless unless you are servicing old cell phones, but the 8920 manual tells a lot more about how they work.  It is just some of the buttons are labled diffeantly and in differant places.  What you see on the screen will be almost the same.  Look on that Amtronix web page for a quick start guide also.

--- On Mon, 2/11/13, nolimit3o3 <nolimit3o3@yahoo.com> wrote:

From: nolimit3o3 <nolimit3o3@...>
Subject: [hp8924] Re: Looking to purchase...
To: hp8924@yahoogroups.com
Date: Monday, February 11, 2013, 7:59 AM

Wow, first off, thank you all for the fast and detailed replys, It looks like i have some thinking to do and saving (money) as well lol.  I would like something a tad smaller hense the reason i was looking at the 1200s, but i suppose if the HP does more and is a better

unit i could find a way to make room for it.

I used to be a ham back in the early 90's, then i kind of fell out of radio for a number of years.  Im hoping to hit the VEC this week actually to take the test again.. Anyhow, yes i have used a service monintor before, but we're talking some old stuff CE-3 and CE-5's, looks as if i may be waiting a tad longer to purchase now as im about 500 shy of 1600 and recently unemployed. I was at a ham fest yesterday and found a CE-6 for $200 but its old, hasnt been calibrated in 20 years and didnt have all the preselectors i would need so i passed on it.  Anyway maybe in the coming weeks i'll have my new call and i'll see if we cant meet up on IRLP or something of the like :)

Im off to go apply for jobs for the day, thanks again to all who replied, i have considerably more information now and have some thinking and researching to do now :)

Thanks again!
David

# 1321. Re: [hp8924] Re: Looking to purchase...

Yahoo group: hp8924
Date: 2013-02-11 15:15:50 UTC
From: susy
Topic: 1314  Message: 1321

If you are looking for a 10M to 1 G spectrum analyzer, take a look at the 8922 series units. These are available for considerably less (250 to 1K) than any of the other test sets, but they are real boat anchors at around 75 pounds. And you have to make sure you get opt 006 so you get the spec analyzer function. The 8922 was intended as a cell test box that was loaded with that sort of functionality, but no so much RF test capability. I bought one when the last of my 141Ts gave up and used it for the spec analyzer function until I was able to find a nice 8920A, which I think is about the ultimate when it comes to ham radio testing. Down side is the 8920A is very pricey and the plug in card with RF Tools is hard to find and expensive.

Keep hoping that someone will come up with some hacks on the 8922 to make it do more. Mine is now on an old TEK scope cart and I use it to make sure my 902 repeater is still working.

jim w0nkn

From: nolimit3o3
Sent: Monday, February 11, 2013 8:57 AM
To: hp8924@yahoogroups.com
Subject: [hp8924] Re: Looking to purchase...

Yeah Pete, ive been reading for hours now it seems lol, i think im with you on this decission. Im not really planning on doing alot of portable work so i can acomodate the size and as stated before, saves space in the sense you dont have a bench full of equipment which was one of the reasons i was going this route. I have limited space, but all in all, i think this unit will do all i need to. Just need to sell off some more stuff so i can get the remaining money needed for it lol.

I tried looking around and im finding pleanty of these units uncalibrated with used crt's and are about the same if not more than what Amtronix wants for a calibrated refurbished unit and offers a warranty. All that is worth it to me to save up the extra money, i just hate being so damn impatient lol.

David

--- In mailto:hp8924%40yahoogroups.com, Pedro Castillo wrote:
>
> You and I are in the same situation, I have been talking back and forth with Rick Bowman @Amtronix but I think I have made a decision to buy the HP8924C from him http://www.amtronix.com/hp8924c60.htm he specializes in this units, read up and do your all of your homework.
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> Pete.
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> Enviado desde mi iPad
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> El 10/02/2013, a las 10:51 p.m., "nolimit3o3" escribiÃ³:
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> > Ive been looking to purchase a service monitor and like most cant afford a $15,000-50,000 peice of bench equipment. So ive been looking at this 8924c, a IFR 1200s and a Motorola R2100D. I mainly do work on amateur radio and some commercial equipment, as well as the occasional CB, FRS etc radio. I read somewhere that the 8924 may be my best bet for the money and as i dont have much to spend i was also wondering if maybe for what my needs are, this may be over kill? I do like the idea of being able to connect a external monitor to it though im more concerned about functionality and use for my needs that being able to make my eyes happy lol.
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> > Thanks for any help in making a decission and any information/input anyone may have. Sorry if this is semi off subject too, though ive been leaning twoards this HP, also whats a fair price for the 8924C?
> >
> > Thanks agian,
> > David
> >
> >
>

# 1322. Re: Looking to purchase...

Yahoo group: hp8924
Date: 2013-02-11 16:48:12 UTC
From: Joe Leikhim
Topic: 1314  Message: 1322

You cannot go wrong with an 89XX series monitor. I bought an 8920B at a very good price and have not looked back, The sheer numbers of these instruments on the market ensures parts availability for a while and the level of documentation and knowledge base (specifically this group) is terrific.

I doubt you will find sufficient repair parts, documentation, or knowledge base to economically own an IFR, a Motorola or any other vendors monitor . In fact I am not aware that any documentation or spares exist for the R2100D monitor, nor the succession of Motorola/General Dynamics products which followed.

I say this without bias because I used a R2100D for years and it was a fine, easy to use instrument. The HP89XX monitors are just a better designed more flexible instrument, although there is a bit of a learning curve in using one. Hint: Presets are your friend.

--
Joe Leikhim

Leikhim and Associates

Communications Consultants

Oviedo, Florida

JLeikhim@...

407-982-0446

WWW.LEIKHIM.COM

# 1323. RE: [hp8924] Looking to purchase...

Yahoo group: hp8924
Date: 2013-02-11 16:45:32 UTC
From: Dave Trainor
Topic: 1314  Message: 1323

I can't add much technically that others have not said here, but I recently bought a 8924c from Rick at Amtronix and am very happy with it, for my usage I wanted to be able to use the spectrum analyzer down in the lower HF range and Rick was 100% right that it works perfectly down to 400KHz, the calibration is off, and he has a chart available, but the unit does all I wanted and knowing that they professionally checked and calibrated the unit was worth it to me.

73, Dave N8ZFM

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Ralph Mowery
Sent: Monday, February 11, 2013 5:42 AM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Looking to purchase...

I have a 8924c and have used the 1200 in the past. The 8924c is way beter than the 1200 if you do not need to carry the 8924c out to a job. The 8924c weighs in at 60 pounds. There is another HP called a 8920 B that does what the 8924c will do if you get all the options for it and it is only about 40 pounds. Only problem is the 8924c about $ 1600 or less and the 8920b is about 3 to 5 thousand. I bought a 8924c off ebay for about $ 850 shipped and spent another $ 150 to buy an input attuenuator option to take it from 3 watts input to 60 watts input. It will handle 100 watts input for about 10 seconds with that option.
I am just a ham and only use the 8924c for a hobby so price was my main issue. Even if it wasn't I would still get one if I did not carry it to the field.

The 8924c manual leaves out much, but there are free downloads for the 8920 manual. There is some differances in the buttons and the layout, but if you understand that it will get you on the right track. Because the 8924c does so much , plan on spending about 2 weeks getting to know about it. Also look on utube for some vidios of an E8285. That set is very similar to the 8924c.

Here is a place that has some for sell that includes a new CRT display and calibration for about $ 1600. Also lots of information about them.
http://www.amtronix.com/usequip1.htm
While there, look around the site as there is some good information on the unit.

I have not delt with that place, but have heard nothing but good about it.

I bought a tool cart from Sears to place my 8924c on. It has 5 draws an rolls around. I think I got it on sell for just over $ 100.

If you are a ham and want to talk about it on the air, we can set up a sched and I will talk with you about it or help you get it going .

One other question that we need to ask you is have you ever used any service monitors ?

--- On Sun, 2/10/13, nolimit3o3 <nolimit3o3@...<mailto:nolimit3o3@...>> wrote:

From: nolimit3o3 <nolimit3o3@...<mailto:nolimit3o3@...>>
Subject: [hp8924] Looking to purchase...
To: hp8924@yahoogroups.com<mailto:hp8924@yahoogroups.com>
Date: Sunday, February 10, 2013, 11:51 PM
Ive been looking to purchase a service monitor and like most cant afford a $15,000-50,000 peice of bench equipment. So ive been looking at this 8924c, a IFR 1200s and a Motorola R2100D. I mainly do work on amateur radio and some commercial equipment, as well as the occasional CB, FRS etc radio. I read somewhere that the 8924 may be my best bet for the money and as i dont have much to spend i was also wondering if maybe for what my needs are, this may be over kill? I do like the idea of being able to connect a external monitor to it though im more concerned about functionality and use for my needs that being able to make my eyes happy lol.

Thanks for any help in making a decission and any information/input anyone may have. Sorry if this is semi off subject too, though ive been leaning twoards this HP, also whats a fair price for the 8924C?

Thanks agian,
David

--
This message was scanned by ESVA and is believed to be clean.
Click here to report this message as
spam.<http://h0stname/cgi-bin/learn-msg.cgi?id=562B627EDA.529F2>

# 1324. Re: Looking to purchase...

Yahoo group: hp8924
Date: 2013-02-11 17:19:16 UTC
From: Jerry
Topic: 1314  Message: 1324

I know this may be sacrilegious but has anyone looked at the new Rigol SA? It got a great review in QST recently for ham radio applications and lots easier to use. I've also seen some teardowns on Youtube that show it to be a well designed and constructed SA for $1500 with a TG.

Jerry
K1JOS

# 1325. Re: [hp8924] Re: Looking to purchase...

Yahoo group: hp8924
Date: 2013-02-11 17:33:23 UTC
From: Robert Atkinson
Topic: 1314  Message: 1325

Hi David, I hope you find gainful employment soon. With all these 89XX numbers flying around I thought some information on models would be useful for you.
8920A Portable RF test set for analog radios. Spectrum analyser is an option, make sure it's included. "B" model is improved processor, more RAM and standard memory card.
8921A Basically an 8920 with signalling options to use with analog cell phone systems.
8922A through S GSM digital cellphone test set. Big box. Very little analog functionalty. Only useful as a 10MHz to 1000MHz spectrum analyser and tracking generator IF OPTION 006 or 106 is fitted,or CW signal generator. Can be very cheap surplus but the $40,000 new price means some sellers have inflated ideas of value.
8923A DECT cordless phone test. Big box Basically only good for parts.
8924C Basically a 8920B with spectrum analyser and CDMA (early digital) cellphone options in a big box. Best bang for your buck. Covers 10MHz to 1000MHz with full accuracy AM, FM and SSB testing. Works down to 400kHz with reduced level accuracy (this is due to the value of the coupling/DC blocking capacitors in the electronic attenuator). Low cost software give accurate filter/diplexer/cable measurements and scanning radio receiver.

The comments on reading the 8920A/B manual are correct, the 8924C is a super-set of the 8920, so will do everthing. The 8924C manual is very cell phone biased. See the Amtronix website on how to set it so it boots in analog mode.

HTH,
Robert G8RPI.

---
From: nolimit3o3 <nolimit3o3@...>
To: hp8924@yahoogroups.com
Sent: Monday, 11 February 2013, 14:57
Subject: [hp8924] Re: Looking to purchase...

Yeah Pete, ive been reading for hours now it seems lol, i think im with you on this decission. Im not really planning on doing alot of portable work so i can acomodate the size and as stated before, saves space in the sense you dont have a bench full of equipment which was one of the reasons i was going this route. I have limited space, but all in all, i think this unit will do all i need to. Just need to sell off some more stuff so i can get the remaining money needed for it lol.

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David

--- In hp8924@yahoogroups.com, Pedro Castillo wrote:
>
> You and I are in the same situation, I have been talking back and forth with Rick Bowman @Amtronix but I think I have made a decision to buy the HP8924C from him

http://www.amtronix.com/hp8924c60.htm he specializes in this units, read up and do your all of your homework.
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> Pete.
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> Enviado desde mi iPad
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> El 10/02/2013, a las 10:51 p.m., "nolimit3o3" escribiÃ³:
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> > Ive been looking to purchase a service monitor and like most cant afford a $15,000-50,000 peice of bench equipment. So ive been looking at this 8924c, a IFR 1200s and a Motorola R2100D. I mainly do work on amateur radio and some commercial equipment, as well as the occasional CB, FRS etc radio. I read somewhere that the 8924 may be my best bet for the money and as i dont have much to spend i was also wondering if maybe for what my needs are, this may be over kill? I do like the idea of being able to connect a external monitor to it though im more concerned about functionality and use for my needs that being able to make my eyes happy lol.
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> > Thanks for any help in making a decission and any information/input anyone may have. Sorry if this is semi off subject too, though ive been leaning twoards this HP, also whats a fair price for the 8924C?
> >
> > Thanks agian,
> > David
> >
> >
>

# 1326. Re: [hp8924] Re: Looking to purchase...

Yahoo group: hp8924
Date: 2013-02-11 17:51:33 UTC
From: Robert Atkinson
Topic: 1314  Message: 1326

Hi Jerry,
If you primarily want a spectrum analyser they may be worth a look. If you want a service monitor with an SA option they are not much use.

Robert G8RPI.

---
From: Jerry <jsternmd@att.net>
To: hp8924@yahoogroups.com
Sent: Monday, 11 February 2013, 17:19
Subject: [hp8924] Re: Looking to purchase...

I know this may be sacrilegious but has anyone looked at the new Rigol SA?  It got a great review in QST recently for ham radio applications and lots easier to use.  I've also seen some teardowns on Youtube that show it to be a well designed and constructed SA for $1500 with a TG.

Jerry
K1JOS

# 1327. HP8924C versus Motorola R2600

Yahoo group: hp8924
Date: 2013-02-11 18:15:45 UTC
From: hr2pac
Topic: 1327  Message: 1327

Hello to all,

I have been looking in the internet and I cannot find a comprehensive comparison between these service monitors/test sets. I am currently in the position of making the decision to buy a Motorola R2600 from a local guy or the HP8924C from Amtronix but I am at a cross roads, I understand that the R2600 is much lighter, but is that all? Surely will appreciate all the light you guys can shine on the subject, I thank you.

Pete...

# 1328. Re: [hp8924] Re: Looking to purchase...

Yahoo group: hp8924
Date: 2013-02-11 18:35:44 UTC
From: Ralph Mowery
Topic: 1314  Message: 1328

Great rundown on the differant types.  One other comment is to make sure it is a 8924 with a "C" on the end.  There is an E version out that seems to leave out the analog stuff that is what most need now.  I am not sure if there are any  A or B versions out of the 8924 series.

--- On Mon, 2/11/13, Robert Atkinson <robert8rpi@...> wrote:

From: Robert Atkinson <robert8rpi@...>
Subject: Re: [hp8924] Re: Looking to purchase...
To: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
Date: Monday, February 11, 2013, 12:33 PM

Hi David, I hope you find gainful employment soon. With all these 89XX numbers flying around I thought some information on models would be useful for you.
8920A Portable RF test set for analog radios. Spectrum analyser is an option, make sure it's included. "B" model is improved processor, more RAM and standard memory card.
8921A Basically an 8920 with signalling options to use with analog cell phone systems.
8922A through S GSM digital cellphone test set. Big box. Very little analog functionalty. Only useful as a 10MHz to 1000MHz spectrum analyser and tracking generator IF OPTION 006 or 106 is fitted,or CW signal generator. Can be very cheap surplus but the $40,000 new price means some sellers have inflated ideas of value.
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The comments on reading the 8920A/B manual are correct, the 8924C is a super-set of the 8920, so will do everthing. The 8924C manual is very cell phone biased. See the Amtronix website on how to set it so it boots in analog mode.

# 1329. Re: [hp8924] Re: Looking to purchase...

Yahoo group: hp8924
Date: 2013-02-11 18:42:03 UTC
From: Ralph Mowery
Topic: 1314  Message: 1329

That is another good thing about the 89xx series, the ability to program in some often used tests.  Say you want to test a lot of receivers for sinad on 150mhz.  Just set up the 8924c one time and save the tests.  The next time you want to do the same test, just hit the reall button and select the test.

There are some predefined tests in the files section here that can be put on a memory card and loaded into the 8924c and 8920 series.

--- On Mon, 2/11/13, Joe Leikhim <rhyolite@...> wrote:

From: Joe Leikhim <rhyolite@...>
Subject: [hp8924] Re: Looking to purchase...
To: hp8924@yahoogroups.com
Date: Monday, February 11, 2013, 11:48 AM

I say this without bias because I used a R2100D for years and it was a fine, easy to use instrument. The HP89XX monitors are just a better designed more flexible instrument, although there is a bit of a learning curve in using one. Hint: Presets are your friend.

# 1330. Re: HP8924C versus Motorola R2600

Yahoo group: hp8924
Date: 2013-02-11 18:45:07 UTC
From: jyelmgren
Topic: 1327  Message: 1330

Depends on what you are trying to do.

If it is bench work than the 8924C would be the better more cost effective solution.
The 8924C does automatically tune to the TX signal which you really want for doing alignments.

The R2600 is lighter but the tracking gen is optional and no autotune on the versions I had.

Would look at the Amtronix 8924C differences page and compare to the R2600 capabilities.

Would take a 3Watt version and add an external attenuator to cover highpower.

--- In hp8924@yahoogroups.com, "hr2pac" wrote:
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> Hello to all,
>
> I have been looking in the internet and I cannot find a comprehensive comparison between these service monitors/test sets. I am currently in the position of making the decision to buy a Motorola R2600 from a local guy or the HP8924C from Amtronix but I am at a cross roads, I understand that the R2600 is much lighter, but is that all? Surely will appreciate all the light you guys can shine on the subject, I thank you.
>
> Pete...
>

# 1331. Re: HP8924C versus Motorola R2600

Yahoo group: hp8924
Date: 2013-02-11 18:55:49 UTC
From: hr2pac
Topic: 1327  Message: 1331

Thank you for the info. I am mainly interested in repeater alignment, SINAD and duplexer tuning, believe me that I don´t mind the 8924C being heavy, pleny of people here to carry it around. I really am interested to know the differences between the units other than just the weight factor, again thank you.

Pete...

--- In hp8924@yahoogroups.com, "jyelmgren" wrote:
>
> Depends on what you are trying to do.
>
> If it is bench work than the 8924C would be the better more cost effective solution.
> The 8924C does automatically tune to the TX signal which you really want for doing alignments.
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> The R2600 is lighter but the tracking gen is optional and no autotune on the versions I had.
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> Would look at the Amtronix 8924C differences page and compare to the R2600 capabilities.
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> >
> > Pete...
> >
>

# 1332. Re: [hp8924] Re: HP8924C versus Motorola R2600

Yahoo group: hp8924
Date: 2013-02-11 19:53:56 UTC
From: Robert Atkinson
Topic: 1327  Message: 1332

Hi Pete,
I've never used the R2600 series but had a quick look at the spec for the latest D version. Pluses over the 8924C are calibrated coverage down to 400kHz, colour display and lighter weight. Downsides  are the SA will has a maximum span of 10MHz per div or 100MHz across the screen, the tracking generator is optional and it is much more expensive, $6000 for a B or C without the TG. If I could get a 2675D for the price of a 8924C I'd take it, but that isn't going to happen. If I was buying for a business I'd tend to the 2675D because it's a lot younger and supported. For personal use the 8924C is very fixable by the hobbyist.
Oh by the way, the 8924C will also transmit across the whole range, just plug a mic into the front panel.

Robert G8RPI.

---
From: hr2pac <hr2pac@yahoo.com>
To: hp8924@yahoogroups.com
Sent: Monday, 11 February 2013, 18:55
Subject: [hp8924] Re: HP8924C versus Motorola R2600

Thank you for the info. I am mainly interested in repeater alignment, SINAD and duplexer tuning, believe me that I don´t mind the 8924C being heavy, pleny of people here to carry it around. I really am interested to know the differences between the units other than just the weight factor, again thank you.

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> Would take a 3Watt version and add an external attenuator to cover highpower.
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> --- In hp8924@...m, "hr2pac" wrote:
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> > Hello to all,
> >
> > I have been looking in the internet and I cannot find a comprehensive comparison

between these service monitors/test sets. I am currently in the position of making the decision to buy a Motorola R2600 from a local guy or the HP8924C from Amtronix but I am at a cross roads, I understand that the R2600 is much lighter, but is that all? Surely will appreciate all the light you guys can shine on the subject, I thank you.
> >
> > Pete...
> >
>

# 1333. Help me find a wirking Memory card to HP8921A

Yahoo group: hp8924
Date: 2013-02-11 20:24:03 UTC
From: andersg.stenberg
Topic: 1333  Message: 1333

Does anyone have an A8 memory card to HP8921A?
Thanks/Goran

# 1334. Re: [hp8924] Re: Looking to purchase...

Yahoo group: hp8924
Date: 2013-02-12 02:35:40 UTC
From: Jon
Topic: 1314  Message: 1334

There is a location in the DFW area that has 8924c for $750 They can calibrate for additional $$.

That's where I bought mine...

On Mon, Feb 11, 2013 at 6:59 AM, nolimit3o3 <nolimit3o3@...> wrote:

> **
>
>
> Wow, first off, thank you all for the fast and detailed replys, It looks
> like i have some thinking to do and saving (money) as weThll lol. I would
> like something a tad smaller hense the reason i was looking at the 1200s,
> but i suppose if the HP does more and is a better unit i could find a way
> to make room for it.
>
> I used to be a ham back in the early 90's, then i kind of fell out of
> radio for a number of years. Im hoping to hit the VEC this week actually to
> take the test again.. Anyhow, yes i have used a service monintor before,
> but we're talking some old stuff CE-3 and CE-5's, looks as if i may be
> waiting a tad longer to purchase now as im about 500 shy of 1600 and
> recently unemployed. I was at a ham fest yesterday and found a CE-6 for
> $200 but its old, hasnt been calibrated in 20 years and didnt have all the
> preselectors i would need so i passed on it. Anyway maybe in the coming
> weeks i'll have my new call and i'll see if we cant meet up on IRLP or
> something of the like :)
>
> Im off to go apply for jobs for the day, thanks again to all who replied,
> i have considerably more information now and have some thinking and
> researching to do now :)
>
> Thanks again!
> David
>
>
> --- In hp8924@yahoogroups.com, Ralph Mowery wrote:
> >
> > I have a 8924c and have used the 1200 in the past. The 8924c is way
> beter than the 1200 if you do not need to carry the 8924c out to a job.
> The 8924c weighs in at 60 pounds. There is another HP called a 8920 B that
> does what the 8924c will do if you get all the options for it and it is
> only about 40 pounds. Only problem is the 8924c about $ 1600 or less and
> the 8920b is about 3 to 5 thousand. I bought a 8924c off ebay for about $
> 850 shipped and spent another $ 150 to buy an input attuenuator option to
> take it from 3 watts input to 60 watts input. It will handle 100 watts
> input for about 10 seconds with that option.

> > I am just a ham and only use the 8924c for a hobby so price was my main
> issue. Even if it wasn't I would still get one if I did not carry it to
> the field.
> >
> > The 8924c manual leaves out much, but there are free downloads for the
> 8920 manual. There is some differances in the buttons and the layout, but
> if you understand that it will get you on the right track. Because the
> 8924c does so much , plan on spending about 2 weeks getting to know about
> it. Also look on utube for some vidios of an E8285. That set is very
> similar to the 8924c.
> >
> > Here is a place that has some for sell that includes a new CRT display
> and calibration for about $ 1600. Also lots of information about them.
> > http://www.amtronix.com/usequip1.htm
> > While there, look around the site as there is some good information on
> the unit.
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> > I have not delt with that place, but have heard nothing but good about
> it.
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> > I bought a tool cart from Sears to place my 8924c on. It has 5 draws an
> rolls around. I think I got it on sell for just over $ 100.
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> > If you are a ham and want to talk about it on the air, we can set up a
> sched and I will talk with you about it or help you get it going .
> >
> > One other question that we need to ask you is have you ever used any
> service monitors ?
> >
> >
> >
> > --- On Sun, 2/10/13, nolimit3o3 wrote:
> >
> >
> > From: nolimit3o3
> > Subject: [hp8924] Looking to purchase...
> > To: hp8924@yahoogroups.com
> > Date: Sunday, February 10, 2013, 11:51 PM
> >
> >
> > Ive been looking to purchase a service monitor and like most cant afford
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> 8924c, a IFR 1200s and a Motorola R2100D. I mainly do work on amateur
> radio and some commercial equipment, as well as the occasional CB, FRS etc
> radio. I read somewhere that the 8924 may be my best bet for the money and
> as i dont have much to spend i was also wondering if maybe for what my
> needs are, this may be over kill? I do like the idea of being able to
> connect a external monitor to it though im more concerned about
> functionality and use for my needs that being able to make my eyes happy
> lol.

> >
> > Thanks for any help in making a decission and any information/input
> anyone may have. Sorry if this is semi off subject too, though ive been
> leaning twoards this HP, also whats a fair price for the 8924C?
> >
> > Thanks agian,
> > David
> >
>
>
>

# 1335. Re: [hp8924] Looking to purchase...

Yahoo group: hp8924
Date: 2013-02-12 02:51:22 UTC
From: Tim
Topic: 1314  Message: 1335

One thing that people are forgetting is the venerable E6380...

http://www.amtronix.com/e6380a.htm

I bought one of them from Amtronix, with a bridge, and I'm very happy
with it.

Its certainly lug-able, more so than an 8924c , it also has RF tools
built in.

See here for comparison between models...

http://www.amtronix.com/diff.htm

regards

Tim

--
VK2XTT :: QF56if23PB :: BMARC :: WIA :: AMSAT-VK :: AMSAT

# 1336. Re: [hp8924] Looking to purchase...

Yahoo group: hp8924
Date: 2013-02-12 03:05:23 UTC
From: Tim Campbell
Topic: 1314  Message: 1336

I also purchased a 8924C from Rick at Amtronix and have been very happy with it as well as the time Rick spent with me on the phone discussing my options. I wouldn't hesitate buying from him again.

Tim
KB2MFS

On Sun, Feb 10, 2013 at 10:51 PM, nolimit3o3 <nolimit3o3@...> wrote:

> Ive been looking to purchase a service monitor and like most cant afford a
> $15,000-50,000 peice of bench equipment. So ive been looking at this
> 8924c, a IFR 1200s and a Motorola R2100D. I mainly do work on amateur
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> Thanks agian,
> David
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>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
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>
>

# 1337. Re: Looking to purchase...

Yahoo group: hp8924
Date: 2013-02-13 07:04:18 UTC
From: nolimit3o3
Topic: 1314  Message: 1337

Would you happen to have his contact information? I may not be able to come up with the money needed for one from Rick, im close, but still nearly 600 off lol. Got some things in the works, so hopefully i can order one soon, if not this sounds like its a good and cheaper route. I assume your's was in good physical condition? Im not looking for new in the box, but also dont want anything that looks like it was ran over or rolled down a hill lol.

This groups great, cant wait to get one of these so i can start playing/learning lol.

Thanks!
David

--- In hp8924@yahoogroups.com, Jon wrote:
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> There is a location in the DFW area that has 8924c for $750 They can
> calibrate for additional $$.
>
> That's where I bought mine...
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> On Mon, Feb 11, 2013 at 6:59 AM, nolimit3o3 wrote:
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> > > From: nolimit3o3
> > > Subject: [hp8924] Looking to purchase...

> > > To: hp8924@yahoogroups.com
> > > Date: Sunday, February 10, 2013, 11:51 PM
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> > > Thanks agian,
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> >
> >
> >
>

# 1338. Re: Looking to purchase...

Yahoo group: hp8924
Date: 2013-02-13 17:02:54 UTC
From: Al Wolfe
Topic: 1314  Message: 1338

I bought a refurbished 8924c from Rick of Amtronix at Dayton last year for $1250. This was the 60 watt load unit with new CRT. He was advertising them on the web for $1400. So, if you are going to Dayton you may want to wait a bit before having one shipped.

Al, K9SI

# 1339. 11807 NA FM UG problem

Yahoo group: hp8924
Date: 2013-02-15 02:23:43 UTC
From: Jim Kossow
Topic: 1339  Message: 1339

Group I just got a 11807 card I plugged it in and started running all the programs to see hot is all works. I have a problem when I try and run the NA FM UG program I get an error;

After about 2 minutes the screen displays the following message;

ERROR 18 IN 1356 String ovfl. Or Substring err

What is this and how do I fix it?

TNX Jim

# 1340. Re: [hp8924] 11807 NA FM UG problem

Yahoo group: hp8924
Date: 2013-02-15 02:59:39 UTC
From: Ralph Mowery
Topic: 1339  Message: 1340

That seems to be a probelm with the 8924C.  Here is what someone posted.  I edited the file for my 8924c and it seems to work.  You can use wordpad to edit it.
The part at the bottom of the message is where he ran the program on a transceiver and the results.
The program is written in HP Instrument Basic or something like that.  It looks similar to the old Basic language with commands particular to the instruments.

Also the files can be downloaded from the files section here.

++++++++++++++++++++++++++++++++++++++++++++++++++++++++++

Hi

Here is how i got it to work,and i am working of emulated drives >

A. Make these changes***for Ts_rev$[3])>=08 use the first # of your firmware mines A.08.04***

```
1134 IF Ts_mod$="HP 8924C" OR (VAL(Ts_rev$[3])>=08 AND Cur$="YES") THEN
1397 IF Ts_mod$="HP 8924C" OR VAL(Ts_rev$[3])>=08 THEN
14002 IF Ts_mod$="HP 8924C" OR VAL(Ts_rev$[3])>=08 THEN
```

```
1334 ! IF POS(FNTs_mod$,"8921")<>0 THEN
1335 ! IF POS(I_o$,"TACS")<>0 THEN
1336 ! Flt_1$="CCITT"
1337 ! ELSE
1338 Flt_1$="C MESSAGE"
1339 ! END IF
1340 Flt_2$="6KHZ BPF"
1341 Cur$="YES"
1342 SUBEXIT
1343 ! END IF
1344 IF POS(FNTs_mod$,"8924C")<>0 THEN
```

```
13640 IF FNTs_mod$="HP 8924C" THEN
```

```
13651 IF FNTs_mod$="HP 8924C" THEN
```

```
14027 ! To_ts("*RST")
```

```
14017 ! To_ts("*RST")
```

B. Use the POWERON register

C. Set squelch control on in customize test procedure: Set up frequencies and any othe parameters you need

D. turn on Data collection if you want to get a file (i will upload the manual

E. Run the program

good luck

IC-28H low power no audio on mic line or any paramaters set

-Date [MM/DD/YY] 010413  Time [HH.MM) 21.43

This program performs automated tests for  FM radios.

```
   ==============================================================================
Test conditions              Measured value       Lower limit  Upper limit  P/F
==============================================================================

_________________Chan=1: RX Freq=146.52 MHz: TX Freq=146.52 MHz________________

RX audio sen @40% rated dev    8.3 Watts            5.0
RX audio distn 17 dB down      2.1 %                             5.0
RX audio distortion           10.4 %                            10.0       FAIL
RX usable sensitivity           .17 uV                           1.00
RX hum & noise unsquelched    54.2 dB              37.0
RX hum & noise squelched      89.0 dB              57.0
RX threshold squelch sens       .09 uV                            .50
RX tight squelch sens           .26 uV                          10.00
RX sqlch block @  .30 kHz      -.00 dB                          10.00
RX sqlch block @  .80 kHz       .00 dB                          10.00
RX sqlch block @ 1.30 kHz      -0.00 dB                         10.00
RX sqlch block @ 1.80 kHz      -.01 dB                          10.00
RX sqlch block @ 2.30 kHz      -.02 dB                          10.00
RX sqlch block @ 2.80 kHz      -.03 dB                          10.00
RX sqlch block @ 3.00 kHz       .02 dB                          10.00
RX audio resp @  .30 kHz     -13.00 dB error       -7.40         1.00      FAIL
RX audio resp @  .80 kHz      -1.70 dB error       -3.00         1.00
RX audio resp @ 1.30 kHz       1.50 dB error       -3.00         1.00      FAIL
RX audio resp @ 1.80 kHz       2.00 dB error       -3.00         1.00      FAIL
RX audio resp @ 2.30 kHz        .90 dB error       -3.00         1.00
RX audio resp @ 2.80 kHz      -1.00 dB error       -5.00         1.00
RX audio resp @ 3.00 kHz      -1.90 dB error       -6.20         1.00
TX frequency error             -.87 ppm            -2.50         2.50
TX power @ nominal supply      5.1 Watts            8.0         12.0       FAIL
TX dev @ 100 mVrms              .8 kHz             -2.5          3.5
TX mod limiting inst pk+       2.11 kHz             0.00         5.00
TX mod limiting @  .30 kHz     2.12 kHz             0.00         5.00
TX mod limiting @ 3.00 kHz     2.12 kHz             0.00         5.00
TX mod limiting inst pk-       2.15 kHz             0.00         5.00
TX mod limiting @  .30 kHz     2.12 kHz             0.00         5.00
TX mod limiting @ 3.00 kHz     2.12 kHz             0.00         5.00
TX FM hum and noise            0.0 dB               0.0        -35.0       FAIL
TX audio distortion           74.2 %                            10.0       FAIL
Deviation would not set to 1 kHz
TX set deviation               0.0 P/F              1.0          1.0       FAIL
TX residual AM hum & noise      .95 % AM                         2.00
```

#Points passed= 27: Points failed= 8     Test time= 257 secs

--- On Thu, 2/14/13, Jim Kossow <w7owc@...> wrote:

From: Jim Kossow <w7owc@att.net>
Subject: [hp8924] 11807 NA FM UG problem
To: hp8924@yahoogroups.com
Date: Thursday, February 14, 2013, 9:23 PM

Group I just got a 11807 card I plugged it in and started running all the programs to see hot is all works.  I have a problem when I try and run the NA FM UG program I get an error; After about 2 minutes the screen displays the following message;

ERROR 18 IN 1356 String ovfl. Or Substring err

What is this and how do I fix it?

TNX Jim

# 1341. Re: [hp8924] Re: Looking to purchase...

Yahoo group: hp8924
Date: 2013-02-15 03:42:47 UTC
From: Jon
Topic: 1314  Message: 1341

Let me look up their info and I'll post it soon...

On Wed, Feb 13, 2013 at 1:04 AM, nolimit3o3 <danderson255@...> wrote:

> **
>
>
>
> Would you happen to have his contact information? I may not be able to
> come up with the money needed for one from Rick, im close, but still nearly
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> > > > David
> > > >
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# 1342. RE: [SPAM]Re: [hp8924] 11807 NA FM UG problem

Yahoo group: hp8924
Date: 2013-02-15 15:35:51 UTC
From: Jim Kossow
Topic: 1339  Message: 1342

Could this be a firmware issue?

Mine is A.08.02

How do I upgrade if I need too?

TNX Jim

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Ralph Mowery
Sent: Thursday, February 14, 2013 19:00
To: hp8924@yahoogroups.com
Subject: [SPAM]Re: [hp8924] 11807 NA FM UG problem

That seems to be a probelm with the 8924C. Here is what someone posted. I edited the file for my 8924c and it seems to work. You can use wordpad to edit it.

The part at the bottom of the message is where he ran the program on a transceiver and the results.

The program is written in HP Instrument Basic or something like that. It looks similar to the old Basic language with commands particular to the instruments.

Also the files can be downloaded from the files section here.

++++++++++++++++++++++++++++++++++++++++++++++++++++++++

Hi

Here is how i got it to work,and i am working of emulated drives >

A. Make these changes***for Ts_rev$[3])>=08 use the first # of your firmware mines A.08.04***

```
1134 IF Ts_mod$="HP 8924C" OR (VAL(Ts_rev$[3])>=08 AND Cur$="YES") THEN
1397 IF Ts_mod$="HP 8924C" OR VAL(Ts_rev$[3])>=08 THEN
14002 IF Ts_mod$="HP 8924C" OR VAL(Ts_rev$[3])>=08 THEN
```

```
1334 ! IF POS(FNTs_mod$,"8921")<>0 THEN
1335 ! IF POS(I_o$,"TACS")<>0 THEN
1336 ! Flt_1$="CCITT"
1337 ! ELSE
1338 Flt_1$="C MESSAGE"
1339 ! END IF
1340 Flt_2$="6KHZ BPF"
1341 Cur$="YES"
```

```
1342 SUBEXIT
1343 ! END IF
1344 IF POS(FNTs_mod$,"8924C")<>0 THEN
```

```
13640 IF FNTs_mod$="HP 8924C" THEN
```

```
13651 IF FNTs_mod$="HP 8924C" THEN
```

```
14027 ! To_ts("*RST")
```

```
14017 ! To_ts("*RST")
```

B. Use the POWERON register

C. Set squelch control on in customize test procedure: Set up frequencies and any othe parameters you need

D. turn on Data collection if you want to get a file (i will upload the manual

E. Run the program

good luck

IC-28H low power no audio on mic line or any paramaters set

-Date [MM/DD/YY] 010413 Time [HH.MM) 21.43

This program performs automated tests for FM radios.

```
==============================================================================
===
Test conditions Measured value Lower limit Upper limit
P/F
==============================================================================
===

_________________Chan=1: RX Freq=146.52 MHz: TX Freq=146.52
MHz________________
```

RX audio sen @40% rated dev 8.3 Watts 5.0

RX audio distn 17 dB down 2.1 % 5.0

RX audio distortion 10.4 % 10.0
FAIL
RX usable sensitivity .17 uV 1.00

RX hum & noise unsquelched 54.2 dB 37.0

RX hum & noise squelched 89.0 dB 57.0

RX threshold squelch sens .09 uV .50

RX tight squelch sens .26 uV 10.00

```
RX sqlch block @ .30 kHz -.00 dB 10.00

RX sqlch block @ .80 kHz .00 dB 10.00

RX sqlch block @ 1.30 kHz -0.00 dB 10.00

RX sqlch block @ 1.80 kHz -.01 dB 10.00

RX sqlch block @ 2.30 kHz -.02 dB 10.00

RX sqlch block @ 2.80 kHz -.03 dB 10.00

RX sqlch block @ 3.00 kHz .02 dB 10.00

RX audio resp @ .30 kHz -13.00 dB error -7.40 1.00
FAIL
RX audio resp @ .80 kHz -1.70 dB error -3.00 1.00

RX audio resp @ 1.30 kHz 1.50 dB error -3.00 1.00
FAIL
RX audio resp @ 1.80 kHz 2.00 dB error -3.00 1.00
FAIL
RX audio resp @ 2.30 kHz .90 dB error -3.00 1.00

RX audio resp @ 2.80 kHz -1.00 dB error -5.00 1.00

RX audio resp @ 3.00 kHz -1.90 dB error -6.20 1.00

TX frequency error -.87 ppm -2.50 2.50

TX power @ nominal supply 5.1 Watts 8.0 12.0
FAIL
TX dev @ 100 mVrms .8 kHz -2.5 3.5

TX mod limiting inst pk+ 2.11 kHz 0.00 5.00

TX mod limiting @ .30 kHz 2.12 kHz 0.00 5.00

TX mod limiting @ 3.00 kHz 2.12 kHz 0.00 5.00

TX mod limiting inst pk- 2.15 kHz 0.00 5.00

TX mod limiting @ .30 kHz 2.12 kHz 0.00 5.00

TX mod limiting @ 3.00 kHz 2.12 kHz 0.00 5.00

TX FM hum and noise 0.0 dB 0.0 -35.0
FAIL
TX audio distortion 74.2 % 10.0
FAIL
Deviation would not set to 1 kHz
TX set deviation 0.0 P/F 1.0 1.0
FAIL
TX residual AM hum & noise .95 % AM 2.00

#Points passed= 27: Points failed= 8 Test time= 257 secs
```

--- On Thu, 2/14/13, Jim Kossow <w7owc@...> wrote:

From: Jim Kossow <w7owc@...>
Subject: [hp8924] 11807 NA FM UG problem
To: hp8924@yahoogroups.com
Date: Thursday, February 14, 2013, 9:23 PM

Group I just got a 11807 card I plugged it in and started running all the programs to see hot is all works. I have a problem when I try and run the NA FM UG program I get an error;

After about 2 minutes the screen displays the following message;

ERROR 18 IN 1356 String ovfl. Or Substring err

What is this and how do I fix it?

TNX Jim

# 1343. RE: [SPAM]Re: [hp8924] 11807 NA FM UG problem

Yahoo group: hp8924
Date: 2013-02-15 16:13:45 UTC
From: Ralph Mowery
Topic: 1339  Message: 1343

I don't know that much about the program, but it seems that it was written for the 8920 instead of the 8924C.  To make the program work , in several lines you have to replace the 8920 to 8924C.  Then there is a small hardwear differance in the 8920 and 8924C that needs to be taken care of.

I don't know what kind of memory card you have or if your computer will write to a memory card or not.  If you can get a memory card you can read and write to, and a 256K card is big enough, you can go to the files section here and down load the programs and then edit the lines to make it work on the 8924c.  You transfer the needed files just like you would to any removiable disk or thumb drive.

There is an image of the program in the files section, but it is harder to work with.

I do not think the version of the softwear in your 8924c is going to keep the program from running.  I don't recall what version mine is other it starts with an 8.

--- On Fri, 2/15/13, Jim Kossow <w7owc@...> wrote:

From: Jim Kossow <w7owc@...>
Subject: RE: [SPAM]Re: [hp8924] 11807 NA FM UG problem
To: hp8924@yahoogroups.com
Date: Friday, February 15, 2013, 10:35 AM

Could this be a firmware issue?
Mine is A.08.02

How do I upgrade if I need too?
TNX Jim

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Ralph Mowery
Sent: Thursday, February 14, 2013 19:00
To: hp8924@yahoogroups.com
Subject: [SPAM]Re: [hp8924] 11807 NA FM UG problem

That seems to be a probelm with the 8924C.  Here is what someone posted.  I edited the file for my 8924c and it seems to work.  You can use wordpad to edit it.

The part at the bottom of the message is where he ran the program on a transceiver and the results.

The program is written in HP Instrument Basic or something like that.  It looks similar to the old Basic language with commands particular to the instruments.

Also the files can be downloaded from the files section here.

++++++++++++++++++++++++++++++++++++++++++++++++++++++++++

Hi

Here is how i got it to work,and i am working of emulated drives >

A. Make these changes***for Ts_rev$[3])>=08 use the first # of your firmware mines A.08.04***

```
1134 IF Ts_mod$="HP 8924C" OR (VAL(Ts_rev$[3])>=08 AND Cur$="YES") THEN
1397 IF Ts_mod$="HP 8924C" OR VAL(Ts_rev$[3])>=08 THEN
14002 IF Ts_mod$="HP 8924C" OR VAL(Ts_rev$[3])>=08 THEN
```

```
1334 ! IF POS(FNTs_mod$,"8921")<>0 THEN
1335 ! IF POS(I_o$,"TACS")<>0 THEN
1336 ! Flt_1$="CCITT"
1337 ! ELSE
1338 Flt_1$="C MESSAGE"
1339 ! END IF
1340 Flt_2$="6KHZ BPF"
1341 Cur$="YES"
1342 SUBEXIT
1343 ! END IF
1344 IF POS(FNTs_mod$,"8924C")<>0 THEN
```

```
13640 IF FNTs_mod$="HP 8924C" THEN
```

```
13651 IF FNTs_mod$="HP 8924C" THEN
```

```
14027 ! To_ts("*RST")
```

```
14017 ! To_ts("*RST")
```

B. Use the POWERON register

C. Set squelch control on in customize test procedure: Set up frequencies and any othe parameters you need

D. turn on Data collection if you want to get a file (i will upload the manual

E. Run the program

good luck

# 1344. [SPAM]Re: [hp8924] 11807 NA FM UG problem

Yahoo group: hp8924
Date: 2013-02-15 18:52:28 UTC
From: jyelmgren
Topic: 1339  Message: 1344

The details of the fix are in post http://groups.yahoo.com/group/hp8924/message/1277
The program is really looking at the different model names (8920a,8921a and 8920b ) in it's original form.
It also looks at firmware levels to set the program values up correctly .

I actually changed the fix slightly to work with 5.x 8924C but never really had time to test it.

My take is that the NA_FM program in question is more for manufacturing final test than field use.

The are some interesting utilities in the RF Tools program but never really had much use for it. The cable fault was about the most useful thing I saw in there but if someone has found other good use cases I would be interested.

--- In hp8924@yahoogroups.com, Ralph Mowery <ku4pt@...> wrote:
>
>
> I don't know that much about the program, but it seems that it was written for the 8920 instead of the 8924C.  To make the program work , in several lines you have to replace the 8920 to 8924C.  Then there is a small hardwear differance in the 8920 and 8924C that needs to be taken care of.
>
> I don't know what kind of memory card you have or if your computer will write to a memory card or not.  If you can get a memory card you can read and write to, and a 256K card is big enough, you can go to the files section here and down load the programs and then edit the lines to make it work on the 8924c.  You transfer the needed files just like you would to any removiable disk or thumb drive.
>
> There is an image of the program in the files section, but it is harder to work with.
>
> I do not think the version of the softwear in your 8924c is going to keep the program from running.  I don't recall what version mine is other it starts with an 8.
>
>
>
>
> --- On Fri, 2/15/13, Jim Kossow <w7owc@...> wrote:
>
>
> From: Jim Kossow <w7owc@...>
> Subject: RE: [SPAM]Re: [hp8924] 11807 NA FM UG problem
> To: hp8924@yahoogroups.com
> Date: Friday, February 15, 2013, 10:35 AM
>
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>
> Could this be a firmware issue?
> Mine is A.08.02
>
> How do I upgrade if I need too?
> TNX Jim
>
>
>
> From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Ralph Mowery
> Sent: Thursday, February 14, 2013 19:00
> To: hp8924@yahoogroups.com
> Subject: [SPAM]Re: [hp8924] 11807 NA FM UG problem
>
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>
> That seems to be a probelm with the 8924C.  Here is what someone posted.  I edited the file for my 8924c and it seems to work.  You can use wordpad to edit it.
>
> The part at the bottom of the message is where he ran the program on a transceiver and the results.
>
> The program is written in HP Instrument Basic or something like that.  It looks similar to the old Basic language with commands particular to the instruments.
>
>
>
> Also the files can be downloaded from the files section here.
>
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> ++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
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>
>
> Hi
>
> Here is how i got it to work,and i am working of emulated drives >
>
> A. Make these changes***for Ts_rev$[3])>=08 use the first # of your firmware mines A.08.04***
>
> 1134 IF Ts_mod$="HP 8924C" OR (VAL(Ts_rev$[3])>=08 AND Cur$="YES") THEN
> 1397 IF Ts_mod$="HP 8924C" OR VAL(Ts_rev$[3])>=08 THEN
> 14002 IF Ts_mod$="HP 8924C" OR VAL(Ts_rev$[3])>=08 THEN
>
> 1334 ! IF POS(FNTs_mod$,"8921")<>0 THEN
> 1335 ! IF POS(I_o$,"TACS")<>0 THEN
> 1336 ! Flt_1$="CCITT"
> 1337 ! ELSE
> 1338 Flt_1$="C MESSAGE"
> 1339 ! END IF
> 1340 Flt_2$="6KHZ BPF"
> 1341 Cur$="YES"
> 1342 SUBEXIT
> 1343 ! END IF
> 1344 IF POS(FNTs_mod$,"8924C")<>0 THEN
>
> 13640 IF FNTs_mod$="HP 8924C" THEN
>
> 13651 IF FNTs_mod$="HP 8924C" THEN
>
> 14027 ! To_ts("*RST")
>
> 14017 ! To_ts("*RST")
>
> B. Use the POWERON register
>
> C. Set squelch control on in customize test procedure: Set up frequencies and any othe parameters you need
>
> D. turn on Data collection if you want to get a file (i will upload the manual
>
> E. Run the program
>
> good luck
>

# 1345. Re: [SPAM]Re: [hp8924] 11807 NA FM UG problem

Yahoo group: hp8924
Date: 2013-02-15 19:07:35 UTC
From: Ralph Mowery
Topic: 1339  Message: 1345

I agree with you.  None of the programs are that useful to most people.  The cable fault is the only thing that I know of that may be of some use that can not be easily set up manually, and probably just as quick if not quicker.  Also you can use the storage already in the 8924c to save some of the more frequent setups.

The NA FM part is mainly for testing a lot of radios that are the same, such as production or if a fleet is doing a big swap out.  It is interisting to see the program do its thing on a radio.

I bought the 8924c after I retired because I wanted a decent test set for my personal use. I got the rf tools by a download to a pcmcia card I had, so do not have that much in it. It is interisting to play with when you have some time on your hands on a rainy day.

Like you, if someone has found a good use for the programs in a non production application other than the coax fault, I would like to hear about it.

--- On Fri, 2/15/13, jyelmgren <jyelmgren@...> wrote:

From: jyelmgren <jyelmgren@...>
Subject: [SPAM]Re: [hp8924] 11807 NA FM UG problem
To: hp8924@yahoogroups.com
Date: Friday, February 15, 2013, 1:52 PM

The details of the fix are in post http://groups.yahoo.com/group/hp8924/message/1277
The program is really looking at the different model names  (8920a,8921a and 8920b ) in it's original form.
It also looks at firmware levels to set the program values up correctly .

I actually changed the fix slightly to work with 5.x 8924C but never really had time to test it.

My take is that the NA_FM program in question is more for manufacturing final test than field use.

The are some interesting utilities in the RF Tools program but never really had much use for it. The cable fault was about the most useful thing I saw in there but if someone has found other good use cases I would be interested.

# 1346. Re: [SPAM]Re: [hp8924] 11807 NA FM UG problem

Yahoo group: hp8924
Date: 2013-02-15 19:59:50 UTC
From: Robert Atkinson
Topic: 1339  Message: 1346

I find the swept scan and return loss most useful. They have slow sweeps so are not great for adjustments, but with the calibration function it gives you accurate measurements at minimal cost. Basically a poor mans digital scalar network analyser with compensation for unknown or homemade bridges / couplers. The standard tracking generatior is good for adjusting.
The scanner function is also useful but it must be the biggest VHF/UHF scanner ever. It does cover all frequencies including those missing from handheld units in some countries ;-)

Robert G8RPI.

---
From: Ralph Mowery <ku4pt@...>
To: hp8924@yahoogroups.com
Sent: Friday, 15 February 2013, 19:07
Subject: Re: [SPAM]Re: [hp8924] 11807 NA FM UG problem

I agree with you.  None of the programs are that useful to most people.  The cable fault is the only thing that I know of that may be of some use that can not be easily set up manually, and probably just as quick if not quicker.  Also you can use the storage already in the 8924c to save some of the more frequent setups.

The NA FM part is mainly for testing a lot of radios that are the same, such as production or if a fleet is doing a big swap out.  It is interisting to see the program do its thing on a radio.

I bought the 8924c after I retired because I wanted a decent test set for my personal use. I got the rf tools by a download to a pcmcia card I had, so do not have that much in it. It is interisting to play with when you have some time on your hands on a rainy day.

Like you, if someone has found a good use for the programs in a non production application other than the coax fault, I would like to hear about it.

--- On Fri, 2/15/13, jyelmgren <jyelmgren@...> wrote:

>From: jyelmgren <jyelmgren@...>
>Subject: [SPAM]Re: [hp8924] 11807 NA FM UG problem
>To: hp8924@yahoogroups.com
>Date: Friday, February 15, 2013, 1:52 PM
>
>
>The details of the fix are in post http://groups.yahoo.com/group/hp8924/message/1277
>The program is really looking at the different model names  (8920a,8921a and 8920b ) in it's original form.
>It also looks at firmware levels to set the program values up correctly .
>
>I actually changed the fix slightly to work with 5.x 8924C but never really had time to

test it.
>
>My take is that the NA_FM program in question is more for manufacturing final test than field use.
>
>The are some interesting utilities in the RF Tools program but never really had much use for it. The cable fault was about the most useful thing I saw in there but if someone has found other good use cases I would be interested.
>
>

# 1347. Re: [SPAM]Re: [hp8924] 11807 NA FM UG problem

Yahoo group: hp8924
Date: 2013-02-16 00:22:38 UTC
From: Ralph Mowery
Topic: 1339  Message: 1347

Just what I need , a $ 50,000 dollar , 60 pound scanner..Especially one that covers the cell phone frequencies that are blocked on other scanners and now have gone to other frequencies and are digital.....

--- On Fri, 2/15/13, Robert Atkinson <robert8rpi@...> wrote:

From: Robert Atkinson <robert8rpi@...>
Subject: Re: [SPAM]Re: [hp8924] 11807 NA FM UG problem
To: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
Date: Friday, February 15, 2013, 2:59 PM

I find the swept scan and return loss most useful. They have slow sweeps so are not great for adjustments, but with the calibration function it gives you accurate measurements at minimal cost. Basically a poor mans digital scalar network analyser with compensation for unknown or homemade bridges / couplers. The standard tracking generatior is good for adjusting.
The scanner function is also useful but it must be the biggest VHF/UHF scanner ever. It does cover all frequencies including those missing from handheld units in some countries ;-)

Robert G8RPI.

# 1348. Re: Looking to purchase...

Yahoo group: hp8924
Date: 2013-02-16 06:47:35 UTC
From: nolimit3o3
Topic: 1314  Message: 1348

No worries, Rick ended up with my money today lol. Should be here sometime next week. Now i feel like a little kid waiting for xmas morning lol. Thanks again to everyone here. Im sure ill have more questions down the line :)

David

--- In hp8924@yahoogroups.com, Jon <kd5sfa@...> wrote:
>
> Let me look up their info and I'll post it soon...
>
> On Wed, Feb 13, 2013 at 1:04 AM, nolimit3o3 <danderson255@...> wrote:
>
> > **
> >
> >
> >
> > Would you happen to have his contact information? I may not be able to
> > come up with the money needed for one from Rick, im close, but still nearly
> > 600 off lol. Got some things in the works, so hopefully i can order one
> > soon, if not this sounds like its a good and cheaper route. I assume your's
> > was in good physical condition? Im not looking for new in the box, but also
> > dont want anything that looks like it was ran over or rolled down a hill
> > lol.
> >
> > This groups great, cant wait to get one of these so i can start
> > playing/learning lol.
> >
> > Thanks!
> > David
> >
> > --- In hp8924@yahoogroups.com, Jon wrote:
> > >
> > > There is a location in the DFW area that has 8924c for $750 They can
> > > calibrate for additional $$.
> > >
> > > That's where I bought mine...
> > >
> > > On Mon, Feb 11, 2013 at 6:59 AM, nolimit3o3 wrote:
> > >
> > > > **
> > > >
> > > >
> > > > Wow, first off, thank you all for the fast and detailed replys, It
> > looks
> > > > like i have some thinking to do and saving (money) as weThll lol. I

> > would
> > > > like something a tad smaller hense the reason i was looking at the
> > 1200s,
> > > > but i suppose if the HP does more and is a better unit i could find a
> > way
> > > > to make room for it.
> > > >
> > > > I used to be a ham back in the early 90's, then i kind of fell out of
> > > > radio for a number of years. Im hoping to hit the VEC this week
> > actually to
> > > > take the test again.. Anyhow, yes i have used a service monintor
> > before,
> > > > but we're talking some old stuff CE-3 and CE-5's, looks as if i may be
> > > > waiting a tad longer to purchase now as im about 500 shy of 1600 and
> > > > recently unemployed. I was at a ham fest yesterday and found a CE-6 for
> > > > $200 but its old, hasnt been calibrated in 20 years and didnt have all
> > the
> > > > preselectors i would need so i passed on it. Anyway maybe in the coming
> > > > weeks i'll have my new call and i'll see if we cant meet up on IRLP or
> > > > something of the like :)
> > > >
> > > > Im off to go apply for jobs for the day, thanks again to all who
> > replied,
> > > > i have considerably more information now and have some thinking and
> > > > researching to do now :)
> > > >
> > > > Thanks again!
> > > > David
> > > >
> > > >
> > > > --- In hp8924@yahoogroups.com, Ralph Mowery wrote:
> > > > >
> > > > > I have a 8924c and have used the 1200 in the past. The 8924c is way
> > > > beter than the 1200 if you do not need to carry the 8924c out to a job.
> > > > The 8924c weighs in at 60 pounds. There is another HP called a 8920 B
> > that
> > > > does what the 8924c will do if you get all the options for it and it is
> > > > only about 40 pounds. Only problem is the 8924c about $ 1600 or less
> > and
> > > > the 8920b is about 3 to 5 thousand. I bought a 8924c off ebay for
> > about $
> > > > 850 shipped and spent another $ 150 to buy an input attuenuator option
> > to
> > > > take it from 3 watts input to 60 watts input. It will handle 100 watts
> > > > input for about 10 seconds with that option.
> > > > > I am just a ham and only use the 8924c for a hobby so price was my
> > main
> > > > issue. Even if it wasn't I would still get one if I did not carry it to
> > > > the field.
> > > > >

> > > > > The 8924c manual leaves out much, but there are free downloads for
> > the
> > > > > 8920 manual. There is some differances in the buttons and the layout,
> > but
> > > > > if you understand that it will get you on the right track. Because the
> > > > > 8924c does so much , plan on spending about 2 weeks getting to know
> > about
> > > > > it. Also look on utube for some vidios of an E8285. That set is very
> > > > > similar to the 8924c.
> > > > > >
> > > > > > Here is a place that has some for sell that includes a new CRT
> > display
> > > > > and calibration for about $ 1600. Also lots of information about them.
> > > > > > http://www.amtronix.com/usequip1.htm
> > > > > > While there, look around the site as there is some good information
> > on
> > > > > the unit.
> > > > > >
> > > > > > I have not delt with that place, but have heard nothing but good
> > about
> > > > > it.
> > > > > >
> > > > > > I bought a tool cart from Sears to place my 8924c on. It has 5 draws
> > an
> > > > > rolls around. I think I got it on sell for just over $ 100.
> > > > > >
> > > > > > If you are a ham and want to talk about it on the air, we can set up
> > a
> > > > > sched and I will talk with you about it or help you get it going .
> > > > > >
> > > > > > One other question that we need to ask you is have you ever used any
> > > > > service monitors ?
> > > > > >
> > > > > >
> > > > > >
> > > > > > --- On Sun, 2/10/13, nolimit3o3 wrote:
> > > > > >
> > > > > >
> > > > > > From: nolimit3o3
> > > > > > Subject: [hp8924] Looking to purchase...
> > > > > > To: hp8924@yahoogroups.com
> > > > > > Date: Sunday, February 10, 2013, 11:51 PM
> > > > > >
> > > > > >
> > > > > > Ive been looking to purchase a service monitor and like most cant
> > afford
> > > > > a $15,000-50,000 peice of bench equipment. So ive been looking at this
> > > > > 8924c, a IFR 1200s and a Motorola R2100D. I mainly do work on amateur
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# 1349. Re: [hp8924] Re: Looking to purchase...

Yahoo group: hp8924
Date: 2013-02-16 14:54:09 UTC
From: Pedro Castillo
Topic: 1314  Message: 1349

You made the best choice buddy, myself I will send Rick my money next week so I can also feel like a little kid waiting for my xmas gift LOL good luck and enjoy your gear.

Pete...

Enviado desde mi iPad

El 16/02/2013, a las 12:47 a.m., "nolimit3o3" <danderson255@...> escribió:

> No worries, Rick ended up with my money today lol. Should be here sometime next week. Now i feel like a little kid waiting for xmas morning lol. Thanks again to everyone here. Im sure ill have more questions down the line :)
>
> David
>
> --- In hp8924@yahoogroups.com, Jon wrote:
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> > Let me look up their info and I'll post it soon...
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> > On Wed, Feb 13, 2013 at 1:04 AM, nolimit3o3 wrote:
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> > > Would you happen to have his contact information? I may not be able to
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> > > > There is a location in the DFW area that has 8924c for $750 They can
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> > > > That's where I bought mine...
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> > > > On Mon, Feb 11, 2013 at 6:59 AM, nolimit3o3 wrote:
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> > > > > The 8924c weighs in at 60 pounds. There is another HP called a 8920 B
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> > > > > does what the 8924c will do if you get all the options for it and it is
> > > > > only about 40 pounds. Only problem is the 8924c about $ 1600 or less
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> > > > > the 8920b is about 3 to 5 thousand. I bought a 8924c off ebay for
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> > > > > 850 shipped and spent another $ 150 to buy an input attuenuator option

> > > to
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> > > > > input for about 10 seconds with that option.
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> > > > > > The 8924c manual leaves out much, but there are free downloads for
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> > > > > > Here is a place that has some for sell that includes a new CRT
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> > > > > > http://www.amtronix.com/usequip1.htm
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> > > > > service monitors ?
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> > > > > > --- On Sun, 2/10/13, nolimit3o3 wrote:
> > > > > >
> > > > > >
> > > > > > From: nolimit3o3
> > > > > > Subject: [hp8924] Looking to purchase...
> > > > > > To: hp8924@yahoogroups.com
> > > > > > Date: Sunday, February 10, 2013, 11:51 PM

> > > > > >
> > > > > >
> > > > > > Ive been looking to purchase a service monitor and like most cant
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# 1350. Re: New Member! and Mic Pin-out

Yahoo group: hp8924
Date: 2013-02-16 21:33:11 UTC
From: wb6dgn_tom@att.net
Topic: 1291  Message: 1350

"You do not have to use the special locking connector,but can use a DIN connector that is common on lots of equipment in the US. The DIN connector is much easier to find."

Marlin P. Jones Assoc. (www.mpja.com) sells the locking connector, the exact mate to the 89xx series. I bought two of them and they fit and lock correctly. The price is two dollars and change and, last time I looked, he had about 90 of them in stock (he doesn't always restock when he runs out). I bought one for a mic. I've yet to find and one for accessory wiring as needed.
Tom

--- In hp8924@yahoogroups.com, Ralph Mowery <ku4pt@...> wrote:
>
> I can't get it copy the drawing of the connector so I can send it to you, but the 8920 is very close to the 8924c. If you do not know it, look for a manual of the 8920 as that tells more about how to use the set for non cell phone testing.  You will have to watch what the buttons are called as some are labled differantly and are in differant places on the two sets.
>
> If you download the 8920 manual 108920-90221.pdf which is probably in the files section here or you should be able to get it from the Agilent web site, look on page 580 for the picture of the connector.
>
> If you start at the bottom of the connector, there is a wide space. That is the ground tab.  going counter clockwise at about the 5 O'clock position that pin is not connected, about 3 o'clock is the mic in, at 1 o'clock is key out 2, at the top or 12 o'clock is the ground, 11 o'clock is key out 1, 9 o'clock is the key in (the push to talk on the microphone) , the 7 o'clock is not connected and the center pn is not connected.
>
> You do not have to use the special locking connector,but can use a DIN connector that is common on lots of equipment in the US.  The DIN connector is much easier to find.
>
>
>
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>
> --- On Mon, 1/21/13, Nicholas <nicholasandre@...> wrote:
>
>
> From: Nicholas <nicholasandre@...>
> Subject: [hp8924] New Member! and Mic Pin-out
> To: hp8924@yahoogroups.com
> Date: Monday, January 21, 2013, 11:27 PM
>

>
> My name's Nick and I have recently purchased a 8924c on the ebay and it's on it's way! I'm trying not to be the poor man who pays twice to calibrate radios.
>
> So to avoid spending $300-700 on a new mic, can someone point me to the mic/accy port pin out? A cursory search revealed nothing.
>
> And I'm looking to test some P1225 radios and similar family with no obvious ground. Do I just jerry rig an RF connector to the RF hot and electrical ground? Or just give up and measure over the air?
>
>
>
> ---
>
> Yahoo! Groups Links
>

# 1351. Re: Looking to purchase...

Yahoo group: hp8924
Date: 2013-02-18 05:15:02 UTC
From: nolimit3o3
Topic: 1314  Message: 1351

Yes i would have to agree, i beleive i got the best bang for my money. And i sure dont have 30-50,000 USD to spend on something newer lol. I think this will last me many years to come and i felt more comfortable dealing with Rick than eBay or any other places. Im sure theres some good places out there, but i dont think anyone offers a deal as good as his.

Im sure i'll spend many days/nights playing with it and learning how to use it as its WAY more advanced than a CE-3 lol. Though all the basics should be the same, just need to learn to navigate the menus and such im sure. Hope you enjoy yours as well, i wish i could have afforded the 8920b for its size and weight, but ill make the extra room for it and i also dont intend on moving it much once its setup lol.

Now i get to save up to replace my scope i sold years back (mainly cause i never learned to use it much lol) and see if i can find a nice DSO with at least 2 channels and in the 150-200mhz range.

David

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# 1352. Re: [hp8924] Re: Looking to purchase...

Yahoo group: hp8924
Date: 2013-02-18 07:27:58 UTC
From: Robert Atkinson
Topic: 1314  Message: 1352

Hi David,
There is a DSO in the 8924C. Only 50kHz bandwidth though!
I'm sure you will be pleased with the 8924C it a great bit of kit. Rember that they cost around $40,000 not that long ago.

Robert G8RPI

---
From: nolimit3o3 <danderson255@...>
To: hp8924@yahoogroups.com
Sent: Monday, 18 February 2013, 5:15
Subject: [hp8924] Re: Looking to purchase...

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> > > > > > > --- On Sun, 2/10/13, nolimit3o3 wrote:
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> > > > > > >
> > > > > > > From: nolimit3o3
> > > > > > > Subject: [hp8924] Looking to purchase...
> > > > > > > To: mailto:hp8924%40yahoogroups.com
> > > > > > > Date: Sunday, February 10, 2013, 11:51 PM
> > > > > > >
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# 1353. Re: New to Group

Yahoo group: hp8924
Date: 2013-02-20 17:40:24 UTC
From: Keith
Topic: 1271  Message: 1353

I've tried to use the image you uploaded with the hpdrive emulator. It returns an error that the file isn't a 9122 image. The file size should be 614k. Did this file work for you and if so how did you get it mounted with the hpdrive program. I can't access it with my 8920A. I can mount a new image and read and write to it but it's 614k in size not 640k.

KD

--- In hp8924@yahoogroups.com, "klyball" <klyball@...> wrote:
>
> Hi
>
> i Just picked up a 8924c for xmas to myself and have have found lots of great
> info in this group, i will adding a vga monitor and doing a 100w upgrade,
>
> I found the 11807Eopt100 in the file section and thought i would load it up, but
> with no PCMCIA card i was out of luck, until i found this hp drive emulator
> http://www.hp9845.net/9845/projects/hpdrive/
> i was successful in mounting a 640k (9122)drive and also a 40mb(9133L) drive
> being able to format , read and write to them. i am also able to run the hp
> rftools . The parts of the program that save plots and data are set to the card
> slot, so you would still need a card to save. although i have played around a
> little with the ibasic code to get it to save to disk or memory with some
> limeted success, but it needs work. i will upload a floppy image with rftools
> for those wishing to try this out.
> * note the files take a few minutes to load to the 8924 so if nothing is
> happening its working *
>

# 1354. Re: Looking to purchase...

Yahoo group: hp8924
Date: 2013-02-20 17:45:35 UTC
From: nolimit3o3
Topic: 1314  Message: 1354

Hey Robert,

Yeah, you are correct, it was a high end costly unit not long ago, i guess its just the CRT that ages it for me lol. If it was a color CRT that would be different, but that mono green is god awful. I hated it in the 80's and 90's, dont care much for it now either lol. That aside, im happy i purchased it. It should show up sometime today, and my christmas can commence :D Looks like im going to get to have some fun today and need to order some stuff like type N adapters and such. Wish i had a local source for a GBS8200 lol.

Have a great day!
David

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Hi David,
> There is a DSO in the 8924C. Only 50kHz bandwidth though!
> I'm sure you will be pleased with the 8924C it a great bit of kit. Rember that they cost around $40,000 not that long ago.
> Â
> Robert G8RPI
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> _____
> From: nolimit3o3 <danderson255@...>
> To: hp8924@yahoogroups.com
> Sent: Monday, 18 February 2013, 5:15
> Subject: [hp8924] Re: Looking to purchase...
>
> Â
> Yes i would have to agree, i beleive i got the best bang for my money. And i sure dont have 30-50,000 USD to spend on something newer lol. I think this will last me many years to come and i felt more comfortable dealing with Rick than eBay or any other places. Im sure theres some good places out there, but i dont think anyone offers a deal as good as his.
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> Im sure i'll spend many days/nights playing with it and learning how to use it as its WAY more advanced than a CE-3 lol. Though all the basics should be the same, just need to learn to navigate the menus and such im sure. Hope you enjoy yours as well, i wish i could have afforded the 8920b for its size and weight, but ill make the extra room for it and i also dont intend on moving it much once its setup lol.
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> Now i get to save up to replace my scope i sold years back (mainly cause i never learned to use it much lol) and see if i can find a nice DSO with at least 2 channels and in the 150-200mhz range.
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> David
>

> --- In mailto:hp8924%40yahoogroups.com, Pedro Castillo wrote:
> >
> > You made the best choice buddy, myself I will send Rick my money next week so I can also feel like a little kid waiting for my xmas gift LOL good luck and enjoy your gear.
> >
> > Pete...
> >
> > Enviado desde mi iPad
> >
> > El 16/02/2013, a las 12:47 a.m., "nolimit3o3" escribiÃ□Â³:
> >
> > > No worries, Rick ended up with my money today lol. Should be here sometime next week. Now i feel like a little kid waiting for xmas morning lol. Thanks again to everyone here. Im sure ill have more questions down the line :)
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> > > --- In mailto:hp8924%40yahoogroups.com, Jon wrote:
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# 1355. Re: HP8924C versus Motorola R2600

Yahoo group: hp8924
Date: 2013-02-20 18:12:16 UTC
From: hr2pac
Topic: 1327  Message: 1355

Thank you all for your comments, went ahead and purchased the HP8924C 100 watt unit from Amtronix.

Pete..

--- In hp8924@yahoogroups.com, "hr2pac" <hr2pac@...> wrote:
>
> Hello to all,
>
> I have been looking in the internet and I cannot find a comprehensive comparison between these service monitors/test sets. I am currently in the position of making the decision to buy a Motorola R2600 from a local guy or the HP8924C from Amtronix but I am at a cross roads, I understand that the R2600 is much lighter, but is that all? Surely will appreciate all the light you guys can shine on the subject, I thank you.
>
> Pete...
>

# 1356. Re: [hp8924] Re: Looking to purchase...

Yahoo group: hp8924
Date: 2013-02-20 18:14:26 UTC
From: Pedro Castillo
Topic: 1314  Message: 1356

Hello all,

I have sent my money today to Rick@Amtronix for the HP8924C, also purchased the Return Loss Bridge and the opt 100 software card. So now I wait for it to arrive and have some fun!

Pete..

From: nolimit3o3 <danderson255@...>

To: hp8924@yahoogroups.com
Sent: Wednesday, February 20, 2013 11:45 AM
Subject: [hp8924] Re: Looking to purchase...

Hey Robert,

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> > > > > > > Im off to go apply for jobs for the day, thanks again to all who
> > > > > > replied,
> > > > > > > i have considerably more information now and have some thinking and
> > > > > > > researching to do now :)
> > > > > > >
> > > > > > > Thanks again!
> > > > > > > David
> > > > > > >
> > > > > > >
> > > > > > > --- In mailto:hp8924%40yahoogroups.com, Ralph Mowery wrote:

> > > > > > > >
> > > > > > > > I have a 8924c and have used the 1200 in the past. The 8924c is way
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> > > > > > > The 8924c weighs in at 60 pounds. There is another HP called a 8920 B
> > > > > that
> > > > > > > does what the 8924c will do if you get all the options for it and it is
> > > > > > > only about 40 pounds. Only problem is the 8924c about $ 1600 or less
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> > > > > > > the 8920b is about 3 to 5 thousand. I bought a 8924c off ebay for
> > > > > about $
> > > > > > > 850 shipped and spent another $ 150 to buy an input attuenuator option
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> > > > > > > take it from 3 watts input to 60 watts input. It will handle 100 watts
> > > > > > > input for about 10 seconds with that option.
> > > > > > > > I am just a ham and only use the 8924c for a hobby so price was my
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> > > > > > > issue. Even if it wasn't I would still get one if I did not carry it to
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> > > > > > > >
> > > > > > > > The 8924c manual leaves out much, but there are free downloads for
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> > > > > > > 8920 manual. There is some differances in the buttons and the layout,
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> > > > > > > if you understand that it will get you on the right track. Because the
> > > > > > > 8924c does so much , plan on spending about 2 weeks getting to know
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> > > > > > > it. Also look on utube for some vidios of an E8285. That set is very
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> > > > > > > While there, look around the site as there is some good information
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> > > > > > > the unit.
> > > > > > > >
> > > > > > > > I have not delt with that place, but have heard nothing but good
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> > > > > > > it.
> > > > > > > >
> > > > > > > > I bought a tool cart from Sears to place my 8924c on. It has 5 draws
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> > > > > > > rolls around. I think I got it on sell for just over $ 100.
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> > > > > > > > If you are a ham and want to talk about it on the air, we can set up
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> > > > > > > sched and I will talk with you about it or help you get it going .
> > > > > > > >
> > > > > > > > One other question that we need to ask you is have you ever used any

> > > > > > > service monitors ?
> > > > > > > >
> > > > > > > >
> > > > > > > >
> > > > > > > > --- On Sun, 2/10/13, nolimit3o3 wrote:
> > > > > > > >
> > > > > > > >
> > > > > > > > From: nolimit3o3
> > > > > > > > Subject: [hp8924] Looking to purchase...
> > > > > > > > To: mailto:hp8924%40yahoogroups.com
> > > > > > > > Date: Sunday, February 10, 2013, 11:51 PM
> > > > > > > >
> > > > > > > >
> > > > > > > > Ive been looking to purchase a service monitor and like most cant
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> > > > > > > > a $15,000-50,000 peice of bench equipment. So ive been looking at this
> > > > > > > > 8924c, a IFR 1200s and a Motorola R2100D. I mainly do work on amateur
> > > > > > > > radio and some commercial equipment, as well as the occasional CB, FRS
> > > > > > etc
> > > > > > > > radio. I read somewhere that the 8924 may be my best bet for the money
> > > > > > and
> > > > > > > > as i dont have much to spend i was also wondering if maybe for what my
> > > > > > > > needs are, this may be over kill? I do like the idea of being able to
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> > > > > > > > lol.
> > > > > > > >
> > > > > > > > Thanks for any help in making a decission and any information/input
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> > > > > > > > leaning twoards this HP, also whats a fair price for the 8924C?
> > > > > > > >
> > > > > > > > Thanks agian,
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>

# 1357. Re: Looking to purchase...

Yahoo group: hp8924
Date: 2013-02-20 22:36:32 UTC
From: nolimit3o3
Topic: 1314  Message: 1357

OMG this box was huge lol.. I guess in my mind even though i read the specs it hought it wasnt going to be quite so deep/long? LOL now i see why people have a seperate cart for this beast :) Received well packaged and its up and running as we speak. Now i get to figure out how to do all the stuff ive read and watched, yay! lol

I want to thank everyone here again for their help in making this decission, again my only wish would be for it to be smaller, but i'm happy!

Pete, you had to go and out do me by buying the extras huh? lol, i figured id buy a RLB or build one, same with rftools, one more thing to add to my list of projects.

David

--- In hp8924@yahoogroups.com, Pedro Castillo <hr2pac@...> wrote:
>
> Hello all,
>
> I have sent my money today to Rick@Amtronix for the HP8924C, also purchased the Return Loss Bridge and the opt 100 software card. So now I wait for it to arrive and have some fun!
>
> Pete..
>
>
> From: nolimit3o3 <danderson255@...>
>
> To: hp8924@yahoogroups.com
> Sent: Wednesday, February 20, 2013 11:45 AM
> Subject: [hp8924] Re: Looking to purchase...
>
>
> Â
>
> Hey Robert,
>
> Yeah, you are correct, it was a high end costly unit not long ago, i guess its just the CRT that ages it for me lol. If it was a color CRT that would be different, but that mono green is god awful. I hated it in the 80's and 90's, dont care much for it now either lol. That aside, im happy i purchased it. It should show up sometime today, and my christmas can commence :D Looks like im going to get to have some fun today and need to order some stuff like type N adapters and such. Wish i had a local source for a GBS8200 lol.
>
> Have a great day!
> David
>
> --- In hp8924@yahoogroups.com, Robert Atkinson wrote:
> >

> > Hi David,
> > There is a DSO in the 8924C. Only 50kHz bandwidth though!
> > I'm sure you will be pleased with the 8924C it a great bit of kit. Rember that they cost around $40,000 not that long ago.
> > Ã□Â
> > Robert G8RPI
> > Ã□Â
> >
> >
> > _____
> > From: nolimit3o3
> > To: hp8924@yahoogroups.com
> > Sent: Monday, 18 February 2013, 5:15
> > Subject: [hp8924] Re: Looking to purchase...
> >
> > Ã□Â
> > Yes i would have to agree, i beleive i got the best bang for my money. And i sure dont have 30-50,000 USD to spend on something newer lol. I think this will last me many years to come and i felt more comfortable dealing with Rick than eBay or any other places. Im sure theres some good places out there, but i dont think anyone offers a deal as good as his.
> >
> > Im sure i'll spend many days/nights playing with it and learning how to use it as its WAY more advanced than a CE-3 lol. Though all the basics should be the same, just need to learn to navigate the menus and such im sure. Hope you enjoy yours as well, i wish i could have afforded the 8920b for its size and weight, but ill make the extra room for it and i also dont intend on moving it much once its setup lol.
> >
> > Now i get to save up to replace my scope i sold years back (mainly cause i never learned to use it much lol) and see if i can find a nice DSO with at least 2 channels and in the 150-200mhz range.
> >
> > David
> >
> > --- In mailto:hp8924%40yahoogroups.com, Pedro Castillo wrote:
> > >
> > > You made the best choice buddy, myself I will send Rick my money next week so I can also feel like a little kid waiting for my xmas gift LOL good luck and enjoy your gear.
> > >
> > > Pete...
> > >
> > > Enviado desde mi iPad
> > >
> > > El 16/02/2013, a las 12:47 a.m., "nolimit3o3" escribiÃ□Æ'Ã□Â³:
> > >
> > > > No worries, Rick ended up with my money today lol. Should be here sometime next week. Now i feel like a little kid waiting for xmas morning lol. Thanks again to everyone here. Im sure ill have more questions down the line :)
> > > >
> > > > David
> > > >
> > > > --- In mailto:hp8924%40yahoogroups.com, Jon wrote:
> > > > >

> > > > > Let me look up their info and I'll post it soon...
> > > > >
> > > > > On Wed, Feb 13, 2013 at 1:04 AM, nolimit3o3 wrote:
> > > > >
> > > > > > **
> > > > > > >
> > > > > > >
> > > > > > >
> > > > > > > Would you happen to have his contact information? I may not be able to
> > > > > > > come up with the money needed for one from Rick, im close, but still nearly
> > > > > > > 600 off lol. Got some things in the works, so hopefully i can order one
> > > > > > > soon, if not this sounds like its a good and cheaper route. I assume your's
> > > > > > > was in good physical condition? Im not looking for new in the box, but also
> > > > > > > dont want anything that looks like it was ran over or rolled down a hill
> > > > > > > lol.
> > > > > > >
> > > > > > > This groups great, cant wait to get one of these so i can start
> > > > > > > playing/learning lol.
> > > > > > >
> > > > > > > Thanks!
> > > > > > > David
> > > > > > >
> > > > > > > --- In mailto:hp8924%40yahoogroups.com, Jon wrote:
> > > > > > > >
> > > > > > > > There is a location in the DFW area that has 8924c for $750 They can
> > > > > > > > calibrate for additional $$.
> > > > > > > >
> > > > > > > > That's where I bought mine...
> > > > > > > >
> > > > > > > > On Mon, Feb 11, 2013 at 6:59 AM, nolimit3o3 wrote:
> > > > > > > >
> > > > > > > > > **
> > > > > > > > >
> > > > > > > > >
> > > > > > > > > Wow, first off, thank you all for the fast and detailed replys, It
> > > > > > > > looks
> > > > > > > > > like i have some thinking to do and saving (money) as weThll lol. I
> > > > > > > > would
> > > > > > > > > like something a tad smaller hense the reason i was looking at the
> > > > > > > > 1200s,
> > > > > > > > > but i suppose if the HP does more and is a better unit i could find a
> > > > > > > > way
> > > > > > > > > to make room for it.
> > > > > > > > >
> > > > > > > > > I used to be a ham back in the early 90's, then i kind of fell out of
> > > > > > > > > radio for a number of years. Im hoping to hit the VEC this week
> > > > > > > > actually to
> > > > > > > > > take the test again.. Anyhow, yes i have used a service monintor
> > > > > > > > before,

> > > > > > > > but we're talking some old stuff CE-3 and CE-5's, looks as if i may be
> > > > > > > > waiting a tad longer to purchase now as im about 500 shy of 1600 and
> > > > > > > > recently unemployed. I was at a ham fest yesterday and found a CE-6 for
> > > > > > > > $200 but its old, hasnt been calibrated in 20 years and didnt have all
> > > > > > the
> > > > > > > > preselectors i would need so i passed on it. Anyway maybe in the coming
> > > > > > > > weeks i'll have my new call and i'll see if we cant meet up on IRLP or
> > > > > > > > something of the like :)
> > > > > > > >
> > > > > > > > Im off to go apply for jobs for the day, thanks again to all who
> > > > > > replied,
> > > > > > > > i have considerably more information now and have some thinking and
> > > > > > > > researching to do now :)
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> > > > > > > > Thanks again!
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> > > > > > > > the 8920b is about 3 to 5 thousand. I bought a 8924c off ebay for
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> > > > > > > >
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> > > > > > > >
> > > > > > > > Here is a place that has some for sell that includes a new CRT

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> > > > > > > > > >
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> > > > > > > > > > From: nolimit3o3
> > > > > > > > > > Subject: [hp8924] Looking to purchase...
> > > > > > > > > > To: mailto:hp8924%40yahoogroups.com
> > > > > > > > > > Date: Sunday, February 10, 2013, 11:51 PM
> > > > > > > > > >
> > > > > > > > > >
> > > > > > > > > > Ive been looking to purchase a service monitor and like most cant
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> > > > > > > > > Thanks agian,
> > > > > > > > > > David
> > > > > > > > > >
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# 1358. Re: [hp8924] Re: Looking to purchase...

Yahoo group: hp8924
Date: 2013-02-21 00:13:43 UTC
From: Ralph Mowery
Topic: 1314  Message: 1358

That thing is sort of large and heavy.  The first thing I did was go to Sears and found a roll around tool box that was on sell for slightly over $ 100.  It has 4 or 5 draws to put stuff in such as test cables, adapters, and some other rest equipment.

You can save a lot on the RLB by going to this one.
Mini-Circuits ZFDC-20-5

Not lab grade, but plenty good enough for service work.  I found two on ebay for about $ 80 for the two of them shipped.  Gave one to a local ham to use with his e8285 that is similar to the 8924c.

The RF Tools can be downloaded from the files section.  Another on here I think is in England may still have some cards he loads with RF Tools for about what you can often find a blank card for.  He was selling them on ebay,but giving a discount for the ones over here if you contact him direct.

There is not too much on the RF Tools that is that good except maybe the coax fault distance test..

Also is a test called NA_FM that is not too useful unless you are setting up and testing a lot of transceivers that are all the same.  The one in the files section will need to be modified to work on the 8924c as it appears to be made for the 8920.

--- On Wed, 2/20/13, nolimit3o3 <danderson255@gmail.com> wrote:

From: nolimit3o3 <danderson255@...>
Subject: [hp8924] Re: Looking to purchase...
To: hp8924@yahoogroups.com
Date: Wednesday, February 20, 2013, 5:36 PM

OMG this box was huge lol.. I guess in my mind even though i read the specs it hought it wasnt going to be quite so deep/long? LOL now i see why people have a seperate cart for this beast :) Received well packaged and its up and running as we speak.  Now i get to figure out how to do all the stuff ive read and watched, yay! lol

I want to thank everyone here again for their help in making this decission, again my only wish would be for it to be smaller, but i'm happy!

Pete, you had to go and out do me by buying the extras huh? lol, i figured id buy a RLB or build one, same with rftools, one more thing to add to my list of projects.

David

# 1359. Where To Purchase

Yahoo group: hp8924
Date: 2013-02-22 15:04:40 UTC
From: kc7wsu
Topic: 1359  Message: 1359

I called Amtronix to purchase a HP 8924c and they said that they were all sold out.

Are there any other good places to buy them? I want one calibrated and that already has the 100W upgrade done.

Regards,

Chris Andrist, KC7WSU

# 1360. Re: Where To Purchase

Yahoo group: hp8924
Date: 2013-02-22 15:40:18 UTC
From: kernkampj
Topic: 1359  Message: 1360

There are some on e-bay right now. I got one from testequip714 last week and it works perfectly and calibration is right on for all functions.
==========

--- In hp8924@yahoogroups.com, "kc7wsu" <chris@...> wrote:
>
> I called Amtronix to purchase a HP 8924c and they said that they were all sold out.
>
> Are there any other good places to buy them? I want one calibrated and that already has the 100W upgrade done.
>
> Regards,
>
> Chris Andrist, KC7WSU
>

# 1361. Re: Looking to purchase...

Yahoo group: hp8924
Date: 2013-02-22 17:13:57 UTC
From: nolimit3o3
Topic: 1314  Message: 1361

I may hold off on the RLB for now as i wont have tons of use for it just yet though id still like to have it. And the price was right on the RF Tools from the group member here, so it would be nice to have if i need it.

Im going to head to the stores this weekend to see what i can come up with for a stand/cart for it. Currently it fits on my table/bench with some room to spare but i like the cart idea. Been checking craigslist as well for them hoping i could find one cheap or free (i love that price).

If this guy locally still has this ZFDC-20-5 i may buy it but i think he already sold it cause hes not responding to my inquiries. But he only wanted $20, thanks for the info on this RLB!

Hope everyone has a great weekend, thanks Ralph for the help and information :)

David

--- In hp8924@yahoogroups.com, Ralph Mowery <ku4pt@...> wrote:
>
>
> That thing is sort of large and heavy.  The first thing I did was go to Sears and found a roll around tool box that was on sell for slightly over $ 100.  It has 4 or 5 draws to put stuff in such as test cables, adapters, and some other rest equipment.
>
> You can save a lot on the RLB by going to this one.
> Mini-Circuits ZFDC-20-5
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> Not lab grade, but plenty good enough for service work.  I found two on ebay for about $ 80 for the two of them shipped.  Gave one to a local ham to use with his e8285 that is similar to the 8924c.
>
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>
> There is not too much on the RF Tools that is that good except maybe the coax fault distance test..
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> Also is a test called NA_FM that is not too useful unless you are setting up and testing a lot of transceivers that are all the same.  The one in the files section will need to be modified to work on the 8924c as it appears to be made for the 8920.
>
>
>

> --- On Wed, 2/20/13, nolimit3o3 <danderson255@...> wrote:
>
>
> From: nolimit3o3 <danderson255@...>
> Subject: [hp8924] Re: Looking to purchase...
> To: hp8924@yahoogroups.com
> Date: Wednesday, February 20, 2013, 5:36 PM
>
>
> OMG this box was huge lol.. I guess in my mind even though i read the specs it hought it wasnt going to be quite so deep/long? LOL now i see why people have a seperate cart for this beast :) Received well packaged and its up and running as we speak.  Now i get to figure out how to do all the stuff ive read and watched, yay! lol
>
> I want to thank everyone here again for their help in making this decission, again my only wish would be for it to be smaller, but i'm happy!
>
> Pete, you had to go and out do me by buying the extras huh? lol, i figured id buy a RLB or build one, same with rftools, one more thing to add to my list of projects.
>
> David
>

# 1362. GBS 8200 Sync Seperator Question.

Yahoo group: hp8924
Date: 2013-02-22 17:16:14 UTC
From: nolimit3o3
Topic: 1362  Message: 1362

Ok ive seen a few different methods, all are cheap and easily built, my question is this, is the LM1881 the better option as far as ease of setup goes? I read its basicly build/plug and play, no adjusting sync pulses etc? This and exactly how the BNC from the 8924c is connected to it are basicly the only questions i have. I almost certain about the connections to the GBS but wanted the best/easiest solution for the sync seperator. This will be my next project once i sell off some more stuff and clear some space. Still need to buy the GBS8200 lol.

Anyway, if this LM1881 is the best option, ill go ahead and order it so i can build the board when i get the GBS here eventually. I as usual am trying to do too many things at once outside of just this stuff, im too good at that. Need to quit starting so many projects or getting involved in them at least lol.

David

# 1363. TX Power Measurement

Yahoo group: hp8924
Date: 2013-02-23 18:01:22 UTC
From: jsternmd@att.net
Topic: 1363  Message: 1363

I get about an 8% difference in Power measurement going from "Peak" to "Sample". With the 8924C TX Power Measurement set for "Sample" I get exactly 1.00 mW but in "Peak" it drops to 0.92 mW.

I zero in between measurements. The HF signal source is 1.00 mW 50Mhz from a calibrated HP8660C in pure CW no modulation. No different whether I use RF in or Ant. I am also verifying/setting the source with a calibrated HP 438A.

Is this due to component aging going through different signal paths?

Is there a different calibration procedure for Peak or Sample?

thanks
jerry
K1JOS

# 1364. Re: [hp8924] TX Power Measurement

Yahoo group: hp8924
Date: 2013-02-23 18:53:47 UTC
From: Ralph Mowery
Topic: 1363  Message: 1364

On my 8924c when I go from Peak to Sample there is an offset of about .18 unless I remove the input  power and hit the 'zero' button every time I switch from Peak to Sample.

When I zero every time I switch, there is no differance in what the 8924c shows.
That is with a signal with no modulation on it.

--- On Sat, 2/23/13, jsternmd@... <jsternmd@...> wrote:

From: jsternmd@... <jsternmd@...>
Subject: [hp8924] TX Power Measurement
To: hp8924@yahoogroups.com
Date: Saturday, February 23, 2013, 1:01 PM

I get about an 8% difference in Power measurement going from "Peak" to "Sample".  With the 8924C TX Power Measurement set for  "Sample" I get exactly 1.00 mW but in "Peak" it drops to 0.92 mW.

I zero in between measurements.  The HF signal source is 1.00 mW 50Mhz from a calibrated HP8660C in pure CW no modulation.  No different whether I use RF in or Ant.  I am also verifying/setting the source with a calibrated HP 438A.

Is this due to component aging going through different signal paths?

Is there a different calibration procedure for Peak or Sample?

thanks
jerry
K1JOS

# 1365. RE: [hp8924] TX Power Measurement

Yahoo group: hp8924
Date: 2013-02-23 19:07:31 UTC
From: Jerry
Topic: 1363  Message: 1365
Attachments: 2 described; binary payloads are missing from this source WARC

Is the .18 difference you measure based on a 1.00 mW input. so 18% before you zero?

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Ralph Mowery
Sent: Saturday, February 23, 2013 13:54
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] TX Power Measurement

On my 8924c when I go from Peak to Sample there is an offset of about .18 unless I remove the input power and hit the 'zero' button every time I switch from Peak to Sample.

When I zero every time I switch, there is no differance in what the 8924c shows.
That is with a signal with no modulation on it.

--- On Sat, 2/23/13, jsternmd@... <jsternmd@...> wrote:

From: jsternmd@... <jsternmd@...>
Subject: [hp8924] TX Power Measurement
To: hp8924@yahoogroups.com
Date: Saturday, February 23, 2013, 1:01 PM
I get about an 8% difference in Power measurement going from "Peak" to "Sample". With the 8924C TX Power Measurement set for "Sample" I get exactly 1.00 mW but in "Peak" it drops to 0.92 mW.

I zero in between measurements. The HF signal source is 1.00 mW 50Mhz from a calibrated HP8660C in pure CW no modulation. No different whether I use RF in or Ant. I am also verifying/setting the source with a calibrated HP 438A.

Is this due to component aging going through different signal paths?

Is there a different calibration procedure for Peak or Sample?

thanks
jerry
K1JOS

# 1366. RE: [hp8924] TX Power Measurement

Yahoo group: hp8924
Date: 2013-02-23 20:04:28 UTC
From: Jerry
Topic: 1363  Message: 1366
Attachments: 2 described; binary payloads are missing from this source WARC

I found the problem as Ralph pointed out. I was re-zeroing before I made the switch from Peak to Sample. I would measure - zero- then switch. Now 100% same reading when I do it in the right sequence. Who knew it would be so sensitive.

Thanks
Jerry

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Jerry
Sent: Saturday, February 23, 2013 14:08
To: hp8924@yahoogroups.com
Subject: RE: [hp8924] TX Power Measurement

Is the .18 difference you measure based on a 1.00 mW input. so 18% before you zero?

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Ralph Mowery
Sent: Saturday, February 23, 2013 13:54
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] TX Power Measurement

On my 8924c when I go from Peak to Sample there is an offset of about .18 unless I remove the input power and hit the 'zero' button every time I switch from Peak to Sample.

When I zero every time I switch, there is no differance in what the 8924c shows.
That is with a signal with no modulation on it.

--- On Sat, 2/23/13, jsternmd@... <jsternmd@...> wrote:

From: jsternmd@... <jsternmd@...>
Subject: [hp8924] TX Power Measurement
To: hp8924@yahoogroups.com
Date: Saturday, February 23, 2013, 1:01 PM
I get about an 8% difference in Power measurement going from "Peak" to "Sample". With the 8924C TX Power Measurement set for "Sample" I get exactly 1.00 mW but in "Peak" it drops to 0.92 mW.

I zero in between measurements. The HF signal source is 1.00 mW 50Mhz from a calibrated HP8660C in pure CW no modulation. No different whether I use RF in or Ant. I am also verifying/setting the source with a calibrated HP 438A.

Is this due to component aging going through different signal paths?

Is there a different calibration procedure for Peak or Sample?

thanks
jerry
K1JOS

# 1367. RE: [hp8924] TX Power Measurement

Yahoo group: hp8924
Date: 2013-02-23 20:08:16 UTC
From: Ralph Mowery
Topic: 1363  Message: 1367

I Zero on Sample and set for 1.00 mw.  Then switch to Peak and get .82.  If I then remove the coax and zero on Peak I then get 1.00 again.  If I switch to Sample it is 1.18 before I remove the coax and re-zero the 8924c.
I checked this at 50 and again at 170 MHz and the results seem to be the same.

--- On Sat, 2/23/13, Jerry <jsternmd@...> wrote:

From: Jerry <jsternmd@...>
Subject: RE: [hp8924] TX Power Measurement
To: hp8924@yahoogroups.com
Date: Saturday, February 23, 2013, 2:07 PM

Is the .18 difference you measure based on a 1.00 mW input… so 18% before you zero?

# 1368. HP 8922M (NOT 8924C!) Tracking Generator?

Yahoo group: hp8924
Date: 2013-02-24 00:42:14 UTC
From: Gary Sanders
Topic: 1368  Message: 1368

I've been a member of this group for a little while, but never posted before. (I was sort of waiting to see if my particular issue ever came up :).

I'm the (not so) proud owner of a 8922M (NOT 8924, unfortunately) with the Spectrum Analyzer Option, and I've seen postings here that say the 8922 with spectrum analyzer has a tracking generator. I've also seen postings that it doesn't.

One posting provided fairly detailed (from memory) steps to set it up. Well, darned if I can find anything that looks like a tracking generator, and the steps that were mentioned don't seem to match anything I can find on my unit. I can find the RF generator OK, but darned if I can figure out a way to make it track ANYTHING!

Can anyone say definitively whether or not the 8922M with Spectrum Analyzer provides a tracking generator?

And if so, would you mind posting the steps needed to enable and operate it?

Thanks in advance for any advice (other then dumping the 8922 and getting a 8924 - it's not in the budget right now!) anyone can provide.

Gary Sanders

# 1369. Re: [hp8924] HP 8922M (NOT 8924C!) Tracking Generator?

Yahoo group: hp8924
Date: 2013-02-24 01:38:08 UTC
From: Ralph Mowery
Topic: 1368  Message: 1369

On the spectrum analizer screen on the bottom left you should see a portion that says Controls.  Highlite this and you should see choices of Main, RF Generator, Marker, and Auxilarry.  The RF Generator is the screen that controls the tracking generator. This should be about the same as the 8924C, but not exectally.

--- On Sat, 2/23/13, Gary Sanders <yahoomail3847@dgsnet.net> wrote:

From: Gary Sanders <yahoomail3847@...>
Subject: [hp8924] HP 8922M (NOT 8924C!) Tracking Generator?
To: "HP 8924C Yahoo Group" <hp8924@yahoogroups.com>
Date: Saturday, February 23, 2013, 7:42 PM

I've been a member of this group for a little while, but never posted before. (I was sort of waiting to see if my particular issue ever came up :).

I'm the (not so) proud owner of a 8922M (NOT 8924, unfortunately) with the Spectrum Analyzer Option, and I've seen postings here that say the 8922 with spectrum analyzer has a tracking generator. I've also seen postings that it doesn't.

One posting provided fairly detailed (from memory) steps to set it up. Well, darned if I can find anything that looks like a tracking generator, and the steps that were mentioned don't seem to match anything I can find on my unit. I can find the RF generator OK, but darned if I can figure out a way to make it track ANYTHING!

Can anyone say definitively whether or not the 8922M with Spectrum Analyzer provides a tracking generator?

And if so, would you mind posting the steps needed to enable and operate it?

Thanks in advance for any advice (other then dumping the 8922 and getting a 8924 - it's not in the budget right now!) anyone can provide.

Gary Sanders

# 1370. Re: [hp8924] HP 8922M (NOT 8924C!) Tracking Generator?

Yahoo group: hp8924
Date: 2013-02-24 04:21:50 UTC
From: Gary Sanders
Topic: 1368  Message: 1370

Thanks for the quick response, Ralph.

Yes, I can find and select the RF Generator option itself, but I don't see any options within that selection to enable Tracking.

The only menu items pertaining to the RF Generator I have are the RF Output Frequency and Level, and I can select which BNC connector to route the signal to.

When I route the RF Generator Output to the Spectrum Analyzer Input with a BNC cable, I can see an RF carrier at the selected frequency and level. When I change the RF Generator Frequency, the carrier moves on the Analyzer screen. I see no option to allow the carrier to Track the analyzer sweep.

What am I doing wrong?

Gary Sanders

On 2/23/2013 8:38 PM, Ralph Mowery wrote:
> On the spectrum analizer screen on the bottom left you should see a
> portion that says Controls. Highlite this and you should see choices of
> Main, RF Generator, Marker, and Auxilarry. The RF Generator is the
> screen that controls the tracking generator.
> This should be about the same as the 8924C, but not exectally.

# 1371. Re: [hp8924] HP 8922M (NOT 8924C!) Tracking Generator?

Yahoo group: hp8924
Date: 2013-02-24 10:15:30 UTC
From: Robert Atkinson
Topic: 1368  Message: 1371

Hi Gary,
I've used the 8924x before but don't have one to check at the moment. However as far as I can recall and check from the 8922M operating manual, the 8922 does not support tracking generator operation. The RF gen selections are Frequncy (non-hop) or Hopped, with no track option.
There is also the issue that the Span is only 4MHz (10MHz over-range).
The SA module is the same part as the 8920 & 8924 so it's not a hardware problem. I've seen mention that you can write an ibasic program to drive the hardware directly and overcome these limits, but it's beyond me. If you have a PC with an HP-IB interface it might be worth trying the 892o RF Tool swept measurement software as a starting point. The last 8922 I had was rough  (it came with a lot of other kit) and I actually broke it for parts. I got more for the SA module than I've ever got or paid for a complete 8922x!
Unfortunatly the 8922 is only good as a narrow span digital SA, 50kHz DSO, CW RF generator and medium perfomance frequency standard in a very big box.

Sorry to be the bearer of bad news,
Robert G8RPI.

---
From: Gary Sanders <yahoomail3847@...>
To: HP 8924C Yahoo Group <hp8924@yahoogroups.com>
Sent: Sunday, 24 February 2013, 0:42
Subject: [hp8924] HP 8922M (NOT 8924C!) Tracking Generator?

I've been a member of this group for a little while, but never posted before. (I was sort of waiting to see if my particular issue ever came up :).

I'm the (not so) proud owner of a 8922M (NOT 8924, unfortunately) with the Spectrum Analyzer Option, and I've seen postings here that say the 8922 with spectrum analyzer has a tracking generator. I've also seen postings that it doesn't.

One posting provided fairly detailed (from memory) steps to set it up. Well, darned if I can find anything that looks like a tracking generator, and the steps that were mentioned don't seem to match anything I can find on my unit. I can find the RF generator OK, but darned if I can figure out a way to make it track ANYTHING!

Can anyone say definitively whether or not the 8922M with Spectrum Analyzer provides a tracking generator?

And if so, would you mind posting the steps needed to enable and operate it?

Thanks in advance for any advice (other then dumping the 8922 and getting a 8924 - it's not in the budget right now!) anyone can provide.

Gary Sanders

# 1372. Re: [hp8924] HP 8922M (NOT 8924C!) Tracking Generator?

Yahoo group: hp8924
Date: 2013-02-24 15:23:08 UTC
From: Gary Sanders
Topic: 1368  Message: 1372

Thanks for the info Robert.

That was my take also, but based on some previous posts I was hoping someone had discovered some hidden menu selections or something.

I'll look into the ibasic route and see if there's a workaround there.

Thanks,

Gary Sanders W0BY

On 2/24/2013 5:15 AM, Robert Atkinson wrote:
> Hi Gary,
> I've used the 8924x before but don't have one to check at the moment.
> However as far as I can recall and check from the 8922M operating
> manual, the 8922 does not support tracking generator operation. The RF
> gen selections are Frequncy (non-hop) or Hopped, with no track option.
> There is also the issue that the Span is only 4MHz (10MHz over-range).
> The SA module is the same part as the 8920 & 8924 so it's not a hardware
> problem. I've seen mention that you can write an ibasic program to drive
> the hardware directly and overcome these limits, but it's beyond me. If
> you have a PC with an HP-IB interface it might be worth trying the 892o
> RF Tool swept measurement software as a starting point. The last 8922 I
> had was rough (it came with a lot of other kit) and I actually broke it
> for parts. I got more for the SA module than I've ever got or paid for a
> complete 8922x!
> Unfortunatly the 8922 is only good as a narrow span digital SA, 50kHz
> DSO, CW RF generator and medium perfomance frequency standard in a very
> big box.
>
> Sorry to be the bearer of bad news,
> Robert G8RPI.

# 1373. Re: [hp8924] HP 8922M (NOT 8924C!) Tracking Generator?

Yahoo group: hp8924
Date: 2013-02-24 18:08:47 UTC
From: Gary Sanders
Topic: 1368  Message: 1373

I realize it's bad form to reply to one's own post, but here goes:

I took a look at the 8922M programming guide, and I don't see any direct references to a tracking generator.

I suppose I could simply repetitively increment the CW generator frequency within the range of interest, but I don't see any way to sync it to the internal sweep generator for the Spectrum Analyzer, so I'd have to experiment.

I don't currently have a GPIB adapter, so off I went to eBay to get a feel for cost. I wish I hadn't. The bottom of the barrel yielded a couple in the $120 to $150 range (including one for $140 "For Parts"). Most are in the 300 to 500 dollar range.

So, I looked up RF Tools - another 300 bucks. That brings the total up to the neighborhood of $500, just to see if the idea would work.

That's roughly half the cost of simply chucking the 8922M and replacing it with a 8924 that already would do what I want.

One thought - you mentioned that the Spectrum Analyzer option is the same in the 8920/22/24. If I removed the Option from my 8922M, would it simply be a matter of dropping the Option into a 8924 that was originally built without it, or does firmware have to be changed to enable it? (Basically, I'm looking for a method that would get me into a 8924 with minimal additional investment. Did I happen to mention that I'm cheap?)

Gary Sanders W0BY

On 2/24/2013 10:23 AM, Gary Sanders wrote:
> Thanks for the info Robert.
>
> That was my take also, but based on some previous posts I was hoping
> someone had discovered some hidden menu selections or something.
>
> I'll look into the ibasic route and see if there's a workaround there.
>
> Thanks,
>
> Gary Sanders W0BY

# 1374. Re: [hp8924] HP 8922M (NOT 8924C!) Tracking Generator?

Yahoo group: hp8924
Date: 2013-02-24 19:52:26 UTC
From: Glenn Little WB4UIV
Topic: 1368 Message: 1374

The spectrum analyzer module for the 8920 and 8924 are the same, the
module for the 8922 has a part number that indicates that it is for the 8922.
The may be minor differences, I do not know as there is no known
schematics for the 8922.
Nor is there a known block diagram for the 8922.

In what little spare time that I have, i am trying to generate a net
list for the 8922 mother board.
From this a block diagram could be generated.

The 8922 comes in a number of versions.
It is possible that another version has the tracking generator function.

A18 Spectrum Analyzer 8922 08922-61045
A18 Spectrum Analyzer (Opt 002 or Opt 102) 8920A/B 08920-61852
A32 Spectrum Analyzer (Opt 002 or Opt 102) 8924C/E 08920-61852

I have generated an Excel spread sheet that shows the modules for the
8920, 8922 and 8924.
I did this in an attempt to find the interchangeable modules.
I have noticed that some of the 8922 modules have a part number
indicating 8922, bur a board number indicating 8920.
I would guess that there are some part differences between the
boards, but, the boards are basically the same.
I have not checked the board number for the 8922 spectrum analyzer.

Hope that this helps and does not add to the confusion
73
Glenn
WB4UIV

At 01:08 PM 2/24/2013, you wrote:
>I realize it's bad form to reply to one's own post, but here goes:
>
>I took a look at the 8922M programming guide, and I don't see any direct
>references to a tracking generator.
>
>I suppose I could simply repetitively increment the CW generator
>frequency within the range of interest, but I don't see any way to sync
>it to the internal sweep generator for the Spectrum Analyzer, so I'd
>have to experiment.
>
>I don't currently have a GPIB adapter, so off I went to eBay to get a
>feel for cost. I wish I hadn't. The bottom of the barrel yielded a
>couple in the $120 to $150 range (including one for $140 "For Parts").
>Most are in the 300 to 500 dollar range.

>
>So, I looked up RF Tools - another 300 bucks. That brings the total up
>to the neighborhood of $500, just to see if the idea would work.
>
>That's roughly half the cost of simply chucking the 8922M and replacing
>it with a 8924 that already would do what I want.
>
>One thought - you mentioned that the Spectrum Analyzer option is the
>same in the 8920/22/24. If I removed the Option from my 8922M, would it
>simply be a matter of dropping the Option into a 8924 that was
>originally built without it, or does firmware have to be changed to
>enable it? (Basically, I'm looking for a method that would get me into a
>8924 with minimal additional investment. Did I happen to mention that
>I'm cheap?)
>
>Gary Sanders W0BY
>
>
>On 2/24/2013 10:23 AM, Gary Sanders wrote:
> > Thanks for the info Robert.
> >
> > That was my take also, but based on some previous posts I was hoping
> > someone had discovered some hidden menu selections or something.
> >
> > I'll look into the ibasic route and see if there's a workaround there.
> >
> > Thanks,
> >
> > Gary Sanders W0BY
>
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>Yahoo! Groups Links
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# 1375. USB to HP1B adapter

Yahoo group: hp8924
Date: 2013-02-25 00:36:50 UTC
From: kj4jtt
Topic: 1375  Message: 1375

Came across this on eBay.

Does the next to last sentence mean it will not work for us?

http://www.ebay.com/itm/USB-to-GPIB-Adapter-/281064946279?pt=LH_DefaultDomain_2&hash=item4170c6ba67

Lee

# 1376. 8924c message

Yahoo group: hp8924
Date: 2013-02-25 02:17:40 UTC
From: youknowmet00
Topic: 1376  Message: 1376

I purchased an HP- 8924c DOA. After replacing the power supply and running the unit I noticed the message "reference unlocked, check reference connection and frequency" at the top of the screen. I entered setup (shift setup) and it shows I am set for a external reference. I don't know where to make the chance to switch to the internal reference oscillator.

Any help would be appreciated

# 1377. Re: [hp8924] 8924c message

Yahoo group: hp8924
Date: 2013-02-25 02:19:26 UTC
From: Don E. Wisdom
Topic: 1376  Message: 1377

There should be a jumper on the back of it that loops the internal
reference into the 8924c.
--Don

On 2/24/13 19:17:40, "youknowmet00" <syntor_man@hotmail.com> wrote:

>I purchased an HP- 8924c DOA. After replacing the power supply and
>running the unit I noticed the message "reference unlocked, check
>reference connection and frequency" at the top of the screen. I entered
>setup (shift setup) and it shows I am set for a external reference. I
>don't know where to make the chance to switch to the internal reference
>oscillator.
>
>Any help would be appreciated
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>Yahoo! Groups Links
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# 1378. Re: 8924c message

Yahoo group: hp8924
Date: 2013-02-25 02:44:37 UTC
From: youknowmet00
Topic: 1376  Message: 1378

Thanks Don, that was it. I never thought to check the back.
Chris

--- In hp8924@yahoogroups.com, "Don E. Wisdom" <donw@...> wrote:
>
> There should be a jumper on the back of it that loops the internal
> reference into the 8924c.
> --Don
>
>
> On 2/24/13 19:17:40, "youknowmet00" <syntor_man@...> wrote:
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> >Yahoo! Groups Links
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# 1379. Re: [hp8924] HP 8922M (NOT 8924C!) Tracking Generator?

Yahoo group: hp8924
Date: 2013-02-25 12:24:25 UTC
From: Robert Atkinson
Topic: 1368 Message: 1379

Hi Glenn,
Interesting, It was a few years ago that I scrapped the unit so maybe my memory is failing on the part number. Or perhaps I had an odd unit. The SA module certainly sold for a good price without complaint though.
To answer some of Gary's questions, It's not worth keeping the SA module to fit to an 8924C as it was standard fit on this unit. You can get the RF Tools code from the group files section. On GPIB look for an older ISA card (HP or NI, NOT TransEra) and stick it in an older PC.

Robert G8RPI.

---
From: Glenn Little WB4UIV <glennmaillist@...>
To: hp8924@yahoogroups.com
Sent: Sunday, 24 February 2013, 19:52
Subject: Re: [hp8924] HP 8922M (NOT 8924C!) Tracking Generator?

The spectrum analyzer module for the 8920 and 8924 are the same, the
module for the 8922 has a part number that indicates that it is for the 8922.
The may be minor differences, I do not know as there is no known
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Nor is there a known block diagram for the 8922.

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A18 Spectrum Analyzer 8922 08922-61045
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8920, 8922 and 8924.
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I have noticed that some of the 8922 modules have a part number
indicating 8922, bur a board number indicating 8920.
I would guess that there are some part differences between the
boards, but, the boards are basically the same.
I have not checked the board number for the 8922 spectrum analyzer.

Hope that this helps and does not add to the confusion
73
Glenn
WB4UIV

At 01:08 PM 2/24/2013, you wrote:
>I realize it's bad form to reply to one's own post, but here goes:
>
>I took a look at the 8922M programming guide, and I don't see any direct
>references to a tracking generator.
>
>I suppose I could simply repetitively increment the CW generator
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>have to experiment.
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>I don't currently have a GPIB adapter, so off I went to eBay to get a
>feel for cost. I wish I hadn't. The bottom of the barrel yielded a
>couple in the $120 to $150 range (including one for $140 "For Parts").
>Most are in the 300 to 500 dollar range.
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>So, I looked up RF Tools - another 300 bucks. That brings the total up
>to the neighborhood of $500, just to see if the idea would work.
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>That's roughly half the cost of simply chucking the 8922M and replacing
>it with a 8924 that already would do what I want.
>
>One thought - you mentioned that the Spectrum Analyzer option is the
>same in the 8920/22/24. If I removed the Option from my 8922M, would it
>simply be a matter of dropping the Option into a 8924 that was
>originally built without it, or does firmware have to be changed to
>enable it? (Basically, I'm looking for a method that would get me into a
>8924 with minimal additional investment. Did I happen to mention that
>I'm cheap?)
>
>Gary Sanders W0BY
>
>
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> > Thanks for the info Robert.
> >
> > That was my take also, but based on some previous posts I was hoping
> > someone had discovered some hidden menu selections or something.
> >
> > I'll look into the ibasic route and see if there's a workaround there.
> >
> > Thanks,
> >
> > Gary Sanders W0BY
>
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>Yahoo! Groups Links
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# 1380. Re: [hp8924] USB to HP1B adapter

Yahoo group: hp8924
Date: 2013-02-25 12:38:33 UTC
From: Robert Atkinson
Topic: 1375  Message: 1380

Hi Lee,
A bigger question is what drivers does it come with and what software is supported by it.
If it is a simple USB-Serial-GPIB unit it may be of little use unless you write your own code for it.
I've not spent time tracking down exactly what it does.

Robert G8RPI

---
From: kj4jtt <kj4jtt@...>
To: hp8924@...m
Sent: Monday, 25 February 2013, 0:36
Subject: [hp8924] USB to HP1B adapter

Came across this on eBay.

Does the next to last sentence mean it will not work for us?

http://www.ebay.com/itm/USB-to-GPIB-Adapter-/281064946279?pt=LH_DefaultDomain_2&hash=item4170c6ba67

Lee

# 1381. Re: USB to HP1B adapter

Yahoo group: hp8924
Date: 2013-02-25 16:36:23 UTC
From: kernkampj
Topic: 1375  Message: 1381

Many years ago I got a Keithley Model 500-SERIAL RS-232-TO-IEEE Converter. It is a great piece of gear, and has served me very well over the years. If you can find one, get it.
==========

--- In hp8924@yahoogroups.com, "kj4jtt" <kj4jtt@...> wrote:
>
> Came across this on eBay.
>
> Does the next to last sentence mean it will not work for us?
>
> http://www.ebay.com/itm/USB-to-GPIB-Adapter-/281064946279?pt=LH_DefaultDomain_2&hash=item4170c6ba67
>
> Lee
>

# 1382. Another advantage of RF Tools - Lower frequency work.

Yahoo group: hp8924
Date: 2013-02-25 17:59:32 UTC
From: Robert Atkinson
Topic: 1382  Message: 1382

Hi, Following an off-list question I looked at using RF Tools for low frequency (HF) applications. We all know that the 8924C is only specified down to 30MHz because of the DC blocking capacitors in the electronic attenuator. It's pretty accurate down to 10MHz and tunes down to 400kHz. The question was would RF Tools correct for the attenuator error. Doing a swept loss measurement using the SA/TG from 2.5MHz to 7.5MHz showed a drop off of 9.5dB at the LF end. Doing the same using RF tools swept insertion loss gave a flat response across the whole range. This is good news for anyone wanting to do HF band work. Obviously there is no "free lunch", there must be a compromise. I this case we are losing some dynamic range, but gaining an accurate result.

Robert G8RPI

# 1383. Re: HP 8922M (NOT 8924C!) Tracking Generator?

Yahoo group: hp8924
Date: 2013-02-25 22:09:47 UTC
From: c_day_nz
Topic: 1368  Message: 1383

Every 8922 I have seen has limited RF gen tracking functionality.
I have purchased 2x 8922 SA modules and they work fine in E8285A - they error (but work) in 8924C. When comparing 8924C & 8922 SA module PCBs, 8924C has aditional BW circuitry which is probably the error I was getting. A cheap solution may be 8924E and fit your 8922M SA module to it. The 8924E was almost the same as 8924C but did not come standard with SA - its slower which I'm picking is mainly a firmware thing. There is 8924C firmware in the group so it may be possible to upgrade 8924E firmware to make it the same as 8924C - not sure though. 73s Chris ZL1CVD

# 1384. Re: Another advantage of RF Tools - Lower frequency work.

Yahoo group: hp8924
Date: 2013-02-25 22:12:40 UTC
From: c_day_nz
Topic: 1382  Message: 1384

Brilliant!!

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Hi, Following an off-list question I looked at using RF Tools for low frequency (HF) applications. We all know that the 8924C is only specified down to 30MHz because of the DC blocking capacitors in the electronic attenuator. It's pretty accurate down to 10MHz and tunes down to 400kHz. The question was would RF Tools correct for the attenuator error. Doing a swept loss measurement using the SA/TG from 2.5MHz to 7.5MHz showed a drop off of 9.5dB at the LF end. Doing the same using RF tools swept insertion loss gave a flat response across the whole range. This is good news for anyone wanting to do HF band work. Obviously there is no "free lunch", there must be a compromise. I this case we are losing some dynamic range, but gaining an accurate result.
>
> Robert G8RPI
>

# 1385. R F Tool program

Yahoo group: hp8924
Date: 2013-02-26 15:37:06 UTC
From: kernkampj
Topic: 1385  Message: 1385

I downloaded R F Tool zipped files from the files section, but don't know what to do with them.

None of the file suffixes look familiar, and my system doesn't know what to do with them.

Can someone steer me in the right direction?

# 1386. Re: [hp8924] R F Tool program

Yahoo group: hp8924
Date: 2013-02-26 16:10:56 UTC
From: Ralph Mowery
Topic: 1385  Message: 1386

Unzip the RF Tools to a directory on your hard drive.  The file extensions will not look familiar to most people.  You then get one of the memory cards (I think it is a PCMCIA without looking up exectally what that card is called)  that fits in the 8924c or similar and transfer the files to that card.  I just use the windows explorer program to drag and drop them to the memory card.

There is also an iso image in the files section, but it is much harder to work with.

Then you put the memory card in the 8924c and you can run that program from that card on the 8924c.  It will take about 2 to 3 minuits for it to load,

 There is a fellow selling the program already on a card on ebay for about what most of the cards cost if you have to buy one.  He is often on this group and may sell you one direct for less than ebay.  I think I have seen them sell from others for over $ 200, but his is less than  $ 100.

You can take Microsoft Word and open most of the files to look at them.  They look similar to the old BASIC programming.  I think it is about the same, except there are some commands that are specific to the HP machines.  I think they call it IBASIC for Instrument Basic.  They can be changed and modified if you know what you are doing.  Someone did that so the FM-NA would run under the 8924c instead of the 8920.  I modified the file by his instructions and it worked fine on my 8924c where before it would give an error.

--- On Tue, 2/26/13, kernkampj <kernkampj@...> wrote:

From: kernkampj <kernkampj@...>
Subject: [hp8924] R F Tool program
To: hp8924@yahoogroups.com
Date: Tuesday, February 26, 2013, 10:37 AM

I downloaded R F Tool zipped files from the files section, but don't know what to do with them.

None of the file suffixes look familiar, and my system doesn't know what to do with them.

Can someone steer me in the right direction?

# 1387. Re: [hp8924] R F Tool program

Yahoo group: hp8924
Date: 2013-02-26 17:27:19 UTC
From: Robert Atkinson
Topic: 1385  Message: 1387

Hi Ralph,
The card is a PCMCIA type. For the simple method you describe it needs to be a battery backed up SRAM card.  Note that using a CF or SD card in a
PCMCIA adaptor will not work as these use the ATA "disk drive"
interface, rather than the direct address mode needed by the 8924C. This method will not work with all PC's as many do not have the required drivers for these older cards. Format the card in the 8924C before putting it in the PC.
I can supply PROM cards with RF Tools on them, see ebay item 261165684352. I offer these directly to list members at a discount, contact me off-list if interested.

Regards,
Robert G8RPI.

---
From: Ralph Mowery <ku4pt@...>
To: hp8924@yahoogroups.com
Sent: Tuesday, 26 February 2013, 16:10
Subject: Re: [hp8924] R F Tool program

Unzip the RF Tools to a directory on your hard drive.  The file extensions will not look familiar to most people.  You then get one of the memory cards (I think it is a PCMCIA without looking up exectally what that card is called)  that fits in the 8924c or similar and transfer the files to that card.  I just use the windows explorer program to drag and drop them to the memory card.

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--- On Tue, 2/26/13, kernkampj <kernkampj@...> wrote:

>From: kernkampj <kernkampj@...>
>Subject: [hp8924] R F Tool program
>To: hp8924@yahoogroups.com

>Date: Tuesday, February 26, 2013, 10:37 AM
>
>
>I downloaded R F Tool zipped files from the files section, but don't know what to do with them.
>
>None of the file suffixes look familiar, and my system doesn't know what to do with them.
>
>Can someone steer me in the right direction?
>
>
>

# 1388. Re: [hp8924] R F Tool program

Yahoo group: hp8924
Date: 2013-02-26 19:23:51 UTC
From: susy
Topic: 1385  Message: 1388

Robert,

Do you know of sources for the 40 pin “Epson” card as used in the 8920A? I have sometimes noticed offerings of the HP card on ebay for $500 or more, and occasionally see the bare card for around $200 with no guarantee of the condition. Not sure the original RF Tools is worth that much, but think it would nice to have at the $100 level.

Suppose I should go for an HPIB interface and buy the second source RF Tools, but hard to justify.

Probably should think about getting an 8924C, but I have the old big iron 8922M and the 8920A, so would have to find some more room.

Have used Cushman, Marconi and IFR test sets and really prefer the 8920A.

73
Jim w0nkn

From: Robert Atkinson
Sent: Tuesday, February 26, 2013 11:27 AM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] R F Tool program

Hi Ralph,
The card is a PCMCIA type. For the simple method you describe it needs to be a battery backed up SRAM card. Note that using a CF or SD card in a PCMCIA adaptor will not work as these use the ATA "disk drive" interface, rather than the direct address mode needed by the 8924C. This method will not work with all PC's as many do not have the required drivers for these older cards. Format the card in the 8924C before putting it in the PC.
I can supply PROM cards with RF Tools on them, see ebay item 261165684352. I offer these directly to list members at a discount, contact me off-list if interested.

Regards,
Robert G8RPI.

---
From: Ralph Mowery <ku4pt@...>
To: hp8924@yahoogroups.com
Sent: Tuesday, 26 February 2013, 16:10
Subject: Re: [hp8924] R F Tool program

Unzip the RF Tools to a directory on your hard drive. The file extensions will not look familiar to most people. You then get one of the memory cards (I think it is a PCMCIA without looking up exectally what that card is called) that fits in the 8924c or similar and transfer the files to that card. I just use the windows explorer program to drag and drop them to the memory card.

There is also an iso image in the files section, but it is much harder to work with.

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Do you
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--- On Tue, 2/26/13, kernkampj <kernkampj@...> wrote:

From: kernkampj <kernkampj@...>
Subject: [hp8924] R F Tool program
To: hp8924@yahoogroups.com
Date: Tuesday, February 26, 2013, 10:37 AM

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None of the file suffixes look familiar, and my system doesn't know what to do with them.

Can someone steer me in the right direction?

# 1389. RE: [hp8924] R F Tool program

Yahoo group: hp8924
Date: 2013-02-26 19:59:19 UTC
From: Adam Farson
Topic: 1385  Message: 1389

Hi Jim,

I am a new group member. I have a late-production 8935/E6380A, and an 8921A. I purchased the 11807A Opt. 100 card from Amtronix for around $150. A few days ago there were 3 of these cards on eBay at $58 each, but they were Rev. B.01.01 and mine is Rev. B.02.01 so I did not buy one.

You can sometimes find blank 40-pin Epson cards on eBay at prices ranging from $100 to $200, but as you say there is no guarantee as to their condition. Yet another source could be the older voting machines as used in some US elections. These machines stored results on a 40-pin Epson card.

I have found RF Tools very useful for such measurements as swept return loss, swept gain, swept insertion loss etc. Here is an example:

http://www.ab4oj.com/atu/presel/main.html

I wonder if it would be possible to replace the Epson card socket in the instrument with a PCMCIA socket.

73, Adam VA7OJ/AB4OJ

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of susy
Sent: 26-Feb-13 11:24
To: hp8924@...m
Subject: Re: [hp8924] R F Tool program

Robert,

Do you know of sources for the 40 pin “Epson” card as used in the 8920A? I have sometimes noticed offerings of the HP card on ebay for $500 or more, and occasionally see the bare card for around $200 with no guarantee of the condition. Not sure the original RF Tools is worth that much, but think it would nice to have at the $100 level.

Suppose I should go for an HPIB interface and buy the second source RF Tools, but hard to justify.

Probably should think about getting an 8924C, but I have the old big iron 8922M and the 8920A, so would have to find some more room.

Have used Cushman, Marconi and IFR test sets and really prefer the 8920A.

73

Jim w0nkn

# 1390. Re: [hp8924] R F Tool program FOR 8920A

Yahoo group: hp8924
Date: 2013-02-26 21:17:26 UTC
From: Robert Atkinson
Topic: 1385  Message: 1390

Hi,
I have a few ideas for solutions to this. In order of dificulty,
1/ Use HPDrive to download the program via HPIB. This needs a PC with GPIB card.
2/ Use a plug-in EPSON to PCMCIA adaptor. This is not as hard as it sounds. The EPSON card has 50 thou edge contacts. A section of a PCI card edge connector fits. You can buy PCI extenders with ribbon cable from China on ebay for a few $. I've a memory card from a 8922A and have confirmed that the connection works. I've not wired it up to a PCMCIA socket as I've no 8920A to test it in.
3/ Wire a PCMCIA socket in parallel with the existing EPSON connector and have an internal card (or replace the EPSON socket) Both this and  2/ will need unused PCMCIA address lines pulled low and function lines set for linear addressing. Chip Enable could go via a switch so the existing socket could be used.
4/ Options 2/ & 3/ could use an EPROM programmed with the BIN image instead of a PCMCIA card.
5/ Put an EPROM with the BIN image in a spare memory socket and re-wire the address decoding so it appears in the memory space for the EPSON card.

Robert G8RPI

---
From: Adam Farson <farson@...>
To: hp8924@yahoogroups.com
Sent: Tuesday, 26 February 2013, 19:59
Subject: RE: [hp8924] R F Tool program

Hi Jim,

I am a new group member. I have a late-production 8935/E6380A, and an 8921A. I purchased the 11807A Opt. 100 card from Amtronix for around $150.  A few days ago there were 3 of these cards on eBay at $58 each, but they were Rev. B.01.01 and mine is Rev. B.02.01 so I did not buy one.

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http://www.ab4oj.com/atu/presel/main.html

I wonder if it would be possible to replace the Epson card socket in the instrument with a PCMCIA socket.

73, Adam VA7OJ/AB4OJ

From:hp8924@yahoogroups.com [mailto:hp8924@...m] On Behalf Of susy
Sent: 26-Feb-13 11:24
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] R F Tool program

Robert,

Do you know of sources for the 40 pin “Epson” card as used in the 8920A?  I have sometimes noticed offerings of the HP card on ebay for $500 or more, and occasionally see the bare card for around $200 with no guarantee of the condition.  Not sure the original RF Tools is worth that much, but think it would nice to have at the $100 level.

Suppose I should go for an HPIB interface and buy the second source RF Tools, but hard to justify.

Probably should think about getting an 8924C, but I have the old big iron 8922M and the 8920A, so would have to find some more room.

Have used Cushman, Marconi and IFR test sets and really prefer the 8920A.

73
Jim w0nkn

# 1391. Re: [hp8924] R F Tool program

Yahoo group: hp8924
Date: 2013-02-26 21:25:49 UTC
From: Robert Atkinson
Topic: 1385  Message: 1391

Hi Jim,
If You have a PC with an HPIB I/F you don't need to buy RF Tools. The files are in the group files section. You use the shareware HPDrive program to emulate an external HPIB disk drive. Once loaded the program remains in NV RAM in the 892X.

Robert G8RPI.

---
From: susy <jonesjames@...>
To: hp8924@yahoogroups.com
Sent: Tuesday, 26 February 2013, 19:23
Subject: Re: [hp8924] R F Tool program

Robert,

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73
Jim w0nkn

From: Robert Atkinson
Sent: Tuesday, February 26, 2013 11:27 AM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] R F Tool program

Hi
Ralph,
The card is a PCMCIA type. For the simple method you describe it needs to be a battery backed up SRAM card.  Note that using a CF or SD card in a PCMCIA adaptor will not work as these use the ATA "disk drive" interface, rather than the direct address mode needed by the 8924C. This method will not work with all PC's as many do not have the required drivers for these older cards. Format the card in the 8924C before putting it in the PC.
I can supply

PROM cards with RF Tools on them, see ebay item 261165684352. I offer these directly to list members at a discount, contact me off-list if interested.

Regards,
Robert G8RPI.

---
From: Ralph Mowery
<ku4pt@...>
To: hp8924@yahoogroups.com
Sent: Tuesday, 26 February 2013, 16:10
Subject: Re: [hp8924] R F Tool
program

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--- On Tue, 2/26/13, kernkampj <kernkampj@...> wrote:

>From:
kernkampj <kernkampj@...>
>Subject: [hp8924] R F Tool
program
>To: hp8924@yahoogroups.com
>Date: Tuesday, February 26,
2013, 10:37 AM
>
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```
>None of
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>Can someone steer me in the right
direction?
>
>
>
```

# 1392. RE: [hp8924] R F Tool program

Yahoo group: hp8924
Date: 2013-02-26 21:57:59 UTC
From: Adam Farson
Topic: 1385  Message: 1392
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Robert,

Will a PC with a GPIB/USB converter such as the Prologix also work?

73, Adam VA7OJ/AB4OJ

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Robert Atkinson
Sent: 26-Feb-13 13:26
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] R F Tool program

Hi Jim,
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Robert G8RPI.

---

From: susy <jonesjames@...>
To: hp8924@yahoogroups.com
Sent: Tuesday, 26 February 2013, 19:23
Subject: Re: [hp8924] R F Tool program

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Jim w0nkn

From: Robert Atkinson <mailto:robert8rpi@yahoo.co.uk>

Sent: Tuesday, February 26, 2013 11:27 AM

To: hp8924@yahoogroups.com

Subject: Re: [hp8924] R F Tool program

Hi Ralph,
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Robert G8RPI.

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From: Ralph Mowery <ku4pt@...>
To: hp8924@yahoogroups.com
Sent: Tuesday, 26 February 2013, 16:10
Subject: Re: [hp8924] R F Tool program

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--- On Tue, 2/26/13, kernkampj <kernkampj@...> wrote:

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Subject: [hp8924] R F Tool program
To: hp8924@yahoogroups.com
Date: Tuesday, February 26, 2013, 10:37 AM

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None of the file suffixes look familiar, and my system doesn't know what to do with them.

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# 1393. Re: [hp8924] R F Tool program

Yahoo group: hp8924
Date: 2013-02-27 07:23:10 UTC
From: Robert Atkinson
Topic: 1385  Message: 1393
Attachments: 1 described; binary payloads are missing from this source WARC

Hi,
No, as far as I know it needs to be an internal card due to timing and identification issues. The original external drives used features specific to the controller chip. See http://www.hp9845.net/9845/projects/hpdrive/

Robert G8RPI.

---
From: Adam Farson <farson@...>
To: hp8924@yahoogroups.com
Sent: Tuesday, 26 February 2013, 21:57
Subject: RE: [hp8924] R F Tool program

Hi Robert,

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Subject: Re: [hp8924] R F Tool program

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---

From:susy <jonesjames@...>
To: hp8924@yahoogroups.com
Sent: Tuesday, 26 February 2013, 19:23
Subject: Re: [hp8924] R F Tool program

Robert,

Do you know of sources for the 40 pin “Epson” card as used in the 8920A?  I have sometimes noticed offerings of the HP card on ebay for $500 or more, and occasionally see the bare card for around $200 with no guarantee of the condition.  Not sure the original RF Tools is worth that much, but think it would nice to have at the $100 level.

Suppose I should go for an HPIB interface and buy the second source RF Tools, but hard to justify.

Probably should think about getting an 8924C, but I have the old big iron 8922M and the 8920A, so would have to find some more room.

Have used Cushman, Marconi and IFR test sets and really prefer the 8920A.

73
Jim w0nkn

From:Robert Atkinson
Sent:Tuesday, February 26, 2013 11:27 AM
To:hp8924@yahoogroups.com
Subject:Re: [hp8924] R F Tool program

Hi Ralph,
The card is a PCMCIA type. For the simple method you describe it needs to be a battery backed up SRAM card. Note that using a CF or SD card in a PCMCIA adaptor will not work as these use the ATA "disk drive" interface, rather than the direct address mode needed by the 8924C. This method will not work with all PC's as many do not have the required drivers for these older cards. Format the card in the 8924C before putting it in the PC.
I can supply PROM cards with RF Tools on them, see ebay item 261165684352. I offer these directly to list members at a discount, contact me off-list if interested.

Regards,
Robert G8RPI.

---

From:Ralph Mowery <ku4pt@...>
To: hp8924@yahoogroups.com
Sent: Tuesday, 26 February 2013, 16:10
Subject: Re: [hp8924] R F Tool program

Unzip the RF Tools to a directory on your hard drive. The file extensions will not look familiar to most people. You then get one of the memory cards (I think it is a PCMCIA without looking up exectally what that card is called) that fits in the 8924c or similar and transfer the files to that card. I just use the windows explorer program to drag and drop them to the memory card.

There is also an iso image in the files section, but it is much harder to work with.

Then you put the memory card in the 8924c and you can run that program from that card on the 8924c. It will take about 2 to 3 minuits for it to load,

There is a fellow selling the program already on a card on ebay for about what most of the cards cost if you have to buy one. He is often on this group and may sell you one direct for less than ebay. I think I have seen them sell from others for over $ 200, but his is less than $ 100.
Do you
You can take Microsoft Word and open most of the files to look at them. They look similar to the old BASIC programming. I think it is about the same, except there are some commands that are specific to the HP machines. I think they call it IBASIC for Instrument Basic. They can be changed and modified if you know what you are doing. Someone did that so the FM-NA would run under the 8924c instead of the 8920. I modified the file by his instructions and it worked fine on my 8924c where before it would give an error.

--- On Tue, 2/26/13, kernkampj <kernkampj@...> wrote:

>From: kernkampj <kernkampj@...>
>Subject: [hp8924] R F Tool program
>To: hp8924@yahoogroups.com
>Date: Tuesday, February 26, 2013, 10:37 AM
>I downloaded R F Tool zipped files from the files section, but don't know what to do with them.
>
>None of the file suffixes look familiar, and my system doesn't know what to do with them.
>
>Can someone steer me in the right direction?
>
>

# 1394. Re: [hp8924] R F Tool program

Yahoo group: hp8924
Date: 2013-02-27 14:52:07 UTC
From: Brad Thompson
Topic: 1385  Message: 1394

Hello--

Here's another GPIB/HPIB resource site which
might prove helpful:

http://www.30dbm.com/GPIB.aspx

Usual disclaimers apply.

73--

Brad AA1IP

# 1395. Re: R F Tool program

Yahoo group: hp8924
Date: 2013-02-27 15:06:03 UTC
From: kernkampj
Topic: 1385  Message: 1395

WOW! Thanks to all that answered my inquiry! Very helpful.

RE the SRAM Cards - I have a couple coming from China - got them on e-bay for $45 each. He still has a couple left - ID is "card-2010".
==========

--- In hp8924@yahoogroups.com, "kernkampj" <kernkampj@...> wrote:
>
> I downloaded R F Tool zipped files from the files section, but don't know what to do with them.
>
> None of the file suffixes look familiar, and my system doesn't know what to do with them.
>
> Can someone steer me in the right direction?
>

# 1396. Re: R F Tool program

Yahoo group: hp8924
Date: 2013-02-27 15:55:19 UTC
From: Joe Leikhim
Topic: 1385  Message: 1396

I have the RF Tools installed on a battery backed PCMCIA SRAM unfortunately unless the card is in the instrument and is powered, the battery life is dismal. I have a FLASH card as well. Can I install the same files in it? Any special method? Will it operate same?

--
Joe Leikhim

Leikhim and Associates

Communications Consultants

Oviedo, Florida

JLeikhim@...

407-982-0446

WWW.LEIKHIM.COM

# 1397. SRAM cards with Windows XP

Yahoo group: hp8924
Date: 2013-02-27 17:24:51 UTC
From: kernkampj
Topic: 1397  Message: 1397

I was looking for how to deal with SRAM cards on my computer, and found this -

1. Insert the PCMCIA SRAM card into the PC Card slot of the computer system.
2. When the 'Hardware Wizard' appears, select 'Install from a list or specific location (advanced)'.
3. Click 'Next'.
4. Select 'Don't search I will choose the driver to install'.
5. Click 'Next'.
6. Scroll through the list of choice and select 'PCMCIA and Flash memory devices'.
7. Click 'Next'.
8. Double click 'generic' under the manufacturer listing.
9. Select 'Generic PCMCIA Memory Card' from the model listing.
10. Click 'Next'.
11. Click the 'Yes' button when the warning dialog appears, to dismiss the warning.
12. Click 'Finish' when the 'Completing the found new hardware wizard' dialog appears.

In case that doesn't work, I have also uploaded an XP driver for SRAM cards that I found on the web. I haven't tried it, though, so no guarantees.

# 1398. Re: [hp8924] Re: R F Tool program

Yahoo group: hp8924
Date: 2013-02-27 17:49:37 UTC
From: Robert Atkinson
Topic: 1385  Message: 1398

Hi Joe,
It depends on the Flash card. If it is a linear flash, you should be OK. To transfer the Binary Image you can use the MCE (Memory Card Explorer) program and a PC (laptop) with a PCMCIA slot. The 8924C can't write to Flash cards. Again depending on the exact Flash card you have, you may need a laptop with 12V programming capability, This is not that common on modern laptops. CF or SD cards in PCMCIA adaptors won't work.
There must be a fault with your SRAM card. The coin cell should last at least a year.

Robert G8RPI

---
From: Joe Leikhim <rhyolite@nettally.com>
To: hp8924@yahoogroups.com
Sent: Wednesday, 27 February 2013, 15:55
Subject: [hp8924] Re: R F Tool program

I have the RF Tools installed on a battery backed PCMCIA SRAM
unfortunately unless the card is in the instrument and is powered, the
battery life is dismal. I have a FLASH card as well. Can I install the
same files in it? Any special method? Will it operate same?

--
Joe Leikhim

Leikhim and Associates

Communications Consultants

Oviedo, Florida

JLeikhim@...

407-982-0446

WWW.LEIKHIM.COM

# 1399. Re: R F Tool program

Yahoo group: hp8924
Date: 2013-02-27 23:29:26 UTC
From: rfiemiguy
Topic: 1385  Message: 1399

Thanks;
I have used an older COMPAQ laptop running Win 95 to program the SRAM card without any problems.

I don't know if I am getting a year. I don't check the card often, but when I need it it is dead.

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Hi Joe,
> It depends on the Flash card. If it is a linear flash, you should be OK. To transfer the Binary Image you can use the MCE (Memory Card Explorer) program and a PC (laptop) with a PCMCIA slot. The 8924C can't write to Flash cards. Again depending on the exact Flash card you have, you may need a laptop with 12V programming capability, This is not that common on modern laptops. CF or SD cards in PCMCIA adaptors won't work.
> There must be a fault with your SRAM card. The coin cell should last at least a year.
>
> Robert G8RPI
>
>
>
>
> _____
> From: Joe Leikhim <rhyolite@...>
> To: hp8924@yahoogroups.com
> Sent: Wednesday, 27 February 2013, 15:55
> Subject: [hp8924] Re: R F Tool program
>
>
> Â
> I have the RF Tools installed on a battery backed PCMCIA SRAM
> unfortunately unless the card is in the instrument and is powered, the
> battery life is dismal. I have a FLASH card as well. Can I install the
> same files in it? Any special method? Will it operate same?
>
> --
> Joe Leikhim
>
> Leikhim and Associates
>
> Communications Consultants
>
> Oviedo, Florida
>
> JLeikhim@...

>
> 407-982-0446
>
> WWW.LEIKHIM.COM
>

# 1400. Re: [hp8924] Re: R F Tool program

Yahoo group: hp8924
Date: 2013-02-27 23:40:27 UTC
From: Ralph Mowery
Topic: 1385  Message: 1400

I found a couple of cards that have an internal rechargable battery.  I think the card says it will hold the memory 2 or 3 months if left unplugged.  It will recharge in the device they are plugged into.

They work fine just by dragging and dropping the files off the windows 98 laptop I use for this and programming some old things.

--- On Wed, 2/27/13, rfiemiguy <rhyolite@...> wrote:

From: rfiemiguy <rhyolite@...>
Subject: [hp8924] Re: R F Tool program
To: hp8924@yahoogroups.com
Date: Wednesday, February 27, 2013, 6:29 PM

Thanks;
I have used an older COMPAQ laptop running Win 95 to program the SRAM card without any problems.

I don't know if I am getting a year. I don't check the card often, but when I need it it is dead.

# 1401. Video Capture

Yahoo group: hp8924
Date: 2013-02-28 16:18:16 UTC
From: kc7wsu
Topic: 1401  Message: 1401

I should have my 8924c from Rick in the next few days.

I want to be able to record what is happening on the screen so that I can us it in video demonstrations.

I am wondering if anybody knows how to capture the video out from the 8924c. I know there are lots of adapters to convert it to VGA, but I wonder if I can bypass that step and go straight from the 8924c to the computer?

Regards,

Chris Andrist, KC7WSU

# 1402. Re: Video Capture

Yahoo group: hp8924
Date: 2013-02-28 17:08:09 UTC
From: Ralph
Topic: 1401  Message: 1402

--- In hp8924@yahoogroups.com, "kc7wsu" <chris@...> wrote:
>
> I should have my 8924c from Rick in the next few days.
>
> I want to be able to record what is happening on the screen so that I can us it in video demonstrations.
>
> I am wondering if anybody knows how to capture the video out from the 8924c. I know there are lots of adapters to convert it to VGA, but I wonder if I can bypass that step and go straight from the 8924c to the computer?
>
> Regards,
>
> Chris Andrist, KC7WSU
>

It is very easy to print the screen of the 8924c to a computer. I don't know how to record it as vidio.

Go to the files section and download "bts_sw.zip".

You will need a 'speical cable' that plugs into the back of the 8924c and goes to the rs232 input of a computer. I don't know the name of the plug, but it looks like the modular telephone plug and the eithernet plug. It has 6 connections on it if I remember correctly.

There is documentation on which pins connect from this plug to the rs232 plug. I have made one and use it with a netbook computer and have an external rs232 to usb adapter to get into the netbook. I don't know what the origional cord was for, but where I worked I asked the computer shop if they had anything like that and they gave me a cord that had a plug on each end, so I cut it in half and put the rs232 connector on one end.

When you have the softwear loaded, you can save the file to the computer and I think if you have the 8924c set up correctly, you can just hit one of the buttons on the 8924c, but it has been a long time ago that I seem to remember doing it that way.

# 1403. Re: Video Capture

Yahoo group: hp8924
Date: 2013-03-01 04:02:20 UTC
From: hr2pac
Topic: 1401  Message: 1403

Go to http://www.amtronix.com/8920btsinfo.htm for screen capture info.

Pete...

--- In hp8924@yahoogroups.com, "kc7wsu" <chris@...> wrote:
>
> I should have my 8924c from Rick in the next few days.
>
> I want to be able to record what is happening on the screen so that I can us it in video demonstrations.
>
> I am wondering if anybody knows how to capture the video out from the 8924c. I know there are lots of adapters to convert it to VGA, but I wonder if I can bypass that step and go straight from the 8924c to the computer?
>
> Regards,
>
> Chris Andrist, KC7WSU
>

# 1404. Re: [hp8924] Re: Video Capture

Yahoo group: hp8924
Date: 2013-03-01 04:33:24 UTC
From: Tony Brignole
Topic: 1401  Message: 1404

I used this and it works. Little cumbersome but good. I also used it with HP digital scope.

I bought a commercial converter to use with VGA and found an older 13 inch monitor that works great.

Bigger screen comes in handy when tuning cavaties as I can turn the monitor around so I can see it from step ladder needed to tune 6 meter cavaties that are 1 foot in diameter and 80 inches tall.

----- Original Message -----
From: hr2pac
To: hp8924@yahoogroups.com
Sent: Thursday, February 28, 2013 10:02 PM
Subject: [hp8924] Re: Video Capture

Go to http://www.amtronix.com/8920btsinfo.htm for screen capture info.

Pete...

--- In hp8924@yahoogroups.com, "kc7wsu" wrote:
>
> I should have my 8924c from Rick in the next few days.
>
> I want to be able to record what is happening on the screen so that I can us it in video demonstrations.
>
> I am wondering if anybody knows how to capture the video out from the 8924c. I know there are lots of adapters to convert it to VGA, but I wonder if I can bypass that step and go straight from the 8924c to the computer?
>
> Regards,
>
> Chris Andrist, KC7WSU
>

# 1405. Re: Video Capture

Yahoo group: hp8924
Date: 2013-03-01 17:12:24 UTC
From: c_day_nz
Topic: 1401  Message: 1405

Looks like you have all the info on screen serial capture with the BTS software. For video capture, look for a 19.2kHz capable USB / PCI video capture card. I personally don't know can't recommend any but someone must make them. 73s Chris ZL1CVD

--- In hp8924@yahoogroups.com, "kc7wsu" <chris@...> wrote:
>
> I should have my 8924c from Rick in the next few days.
>
> I want to be able to record what is happening on the screen so that I can us it in video demonstrations.
>
> I am wondering if anybody knows how to capture the video out from the 8924c. I know there are lots of adapters to convert it to VGA, but I wonder if I can bypass that step and go straight from the 8924c to the computer?
>
> Regards,
>
> Chris Andrist, KC7WSU
>

# 1406. RE: [hp8924] Re: Video Capture

Yahoo group: hp8924
Date: 2013-03-01 17:15:38 UTC
From: Brian Swann
Topic: 1401  Message: 1406

I just use my JVC HD cam for video screen capture. It took some time to figure out the right camera to use, but it works fine now.

Brian
n1bs
http://www.youtube.com/user/n1bsbri

To: hp8924@yahoogroups.com
From: c.day@clear.net.nz
Date: Fri, 1 Mar 2013 17:12:24 +0000
Subject: [hp8924] Re: Video Capture

Looks like you have all the info on screen serial capture with the BTS software. For video capture, look for a 19.2kHz capable USB / PCI video capture card. I personally don't know can't recommend any but someone must make them. 73s Chris ZL1CVD

--- In hp8924@yahoogroups.com, "kc7wsu" wrote:

>

> I should have my 8924c from Rick in the next few days.

>

> I want to be able to record what is happening on the screen so that I can us it in video demonstrations.

>

> I am wondering if anybody knows how to capture the video out from the 8924c. I know there are lots of adapters to convert it to VGA, but I wonder if I can bypass that step and go straight from the 8924c to the computer?

>

> Regards,

>

> Chris Andrist, KC7WSU

>

# 1407. Screen capture on Win 7

Yahoo group: hp8924
Date: 2013-03-01 17:43:52 UTC
From: jim
Topic: 1407  Message: 1407

I can't get the BTS software to run on a Windows 7 machine no matter what compatibility mode I use.

Has anyone been able to run it under Windows 7?

Hints?

73s
jim
ki6njf

# 1408. RE: [hp8924] Screen capture on Win 7

Yahoo group: hp8924
Date: 2013-03-01 20:24:26 UTC
From: Adam Farson
Topic: 1407  Message: 1408

Hi Jim,

I had the same problem. BTS will not install on Win7. I had to purchase PrintCapture and pull the image off my 8935 and 8921A via the GPIB port. You can download a 30-day free trial.

http://www.printcapture.com/

73, Adam VA7OJ/AB4OJ

-----Original Message-----
From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of jim
Sent: 1-Mar-13 09:44
To: hp8924@yahoogroups.com
Subject: [hp8924] Screen capture on Win 7

I can't get the BTS software to run on a Windows 7 machine no matter what compatibility mode I use.

Has anyone been able to run it under Windows 7?

Hints?

73s
jim
ki6njf

---

Yahoo! Groups Links

# 1409. Re: [hp8924] Screen capture on Win 7

Yahoo group: hp8924
Date: 2013-03-02 22:16:39 UTC
From: Tim
Topic: 1407  Message: 1409

On 2/03/2013 7:24 AM, Adam Farson wrote:
>
> Hi Jim,
>
> I had the same problem. BTS will not install on Win7. I had to purchase
> PrintCapture and pull the image off my 8935 and 8921A via the GPIB
> port. You
> can download a 30-day free trial.
>
> http://www.printcapture.com/
>
I'll second that....

PrintCapture is highly capable software and if you have other
instruments, i have an HP 54720A and a HP 8566B, it works with them too.

No relation to manufacturer, just a happy customer :)

regards

Tim

--
VK2XTT :: QF56if23PB :: BMARC :: WIA :: AMSAT-VK :: AMSAT

# 1410. BTS Utilities was:[Screen capture on Win 7]

Yahoo group: hp8924
Date: 2013-03-03 19:04:29 UTC
From: jim
Topic: 1407  Message: 1410
Attachments: 1 described; binary payloads are missing from this source WARC

Having no luck with BTSUtils and Win 7;

I have created a Puppy Linux live boot CD that runs the BTS utilities under wine. The ISO file is here:http://vvgmc.org/freda/radio-puppy.iso feel free to donwload and use it. It's 326.7 MB.

Windows users, if you don't have a program that will burn ISO files to CD/DVD try isoburn: http://isoburn.org/ (no interest, just a happy user)

below is a photo of it running on a 700 MHz Pentiuum III machine with 384 MB of ram. It does not need a working hard drive. ( that's my vintage 2000 laptop with a dead hard drive in it. The BTSUtil program runs on it, now I just have to get a USB serial port to work with wine.)

just boot the cd and click on the BTSUtil icon on the desktop, then set up the com port(s) you want to use.

Note: I don't yet have it working with USB serial dongles.

The puppy linux website: http://www.puppylinux.com/
The info page: http://www.puppylinux.com/info.htm

73s
jim
ki6njf

On Friday, March 01, 2013 09:43:52 AM I wrote:
> I can't get the BTS software to run on a Windows 7 machine no matter what
> compatibility mode I use.
>

# 1411. Re: [hp8924] BTS Utilities was:[Screen capture on Win 7]

Yahoo group: hp8924
Date: 2013-03-03 21:05:36 UTC
From: Chris Andrist
Topic: 1407  Message: 1411

If your going to go through all the trouble to run Linux on an old PC, then why not just install Windows XP and it will work just fine.

--
Chris Andrist

On Mar 3, 2013, at 12:04 PM, jim <jafconsulting@...> wrote:

Having no luck with BTSUtils and Win 7;

I have created a Puppy Linux live boot CD that runs the BTS utilities under wine. The ISO file is here:http://vvgmc.org/freda/radio-puppy.iso feel free to donwload and use it. It's 326.7 MB.

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<IMG_0786_1.png>

just boot the cd and click on the BTSUtil icon on the desktop, then set up the com port(s) you want to use.

Note: I don't yet have it working with USB serial dongles.

The puppy linux website: http://www.puppylinux.com/

The info page: http://www.puppylinux.com/info.htm

73s

jim

ki6njf

On Friday, March 01, 2013 09:43:52 AM I wrote:

> I can't get the BTS software to run on a Windows 7 machine no matter what

> compatibility mode I use.

>

# 1413. Re: [hp8924] BTS Utilities was:[Screen capture on Win 7]

Yahoo group: hp8924
Date: 2013-03-04 07:31:51 UTC
From: Robert Atkinson
Topic: 1407  Message: 1413

Hi Chris,
I'm no Linux guru, but I suspect a big advantage is it's not an install or dual boot. If you don't screen dump often you don't need an extra PC. Just put this CD in your drive, re-boot and capture your screen shots. Then just take the disk out and re-boot into whatever MS bloatware your PC normally runs on.

Robert G8RPI

---
From: Chris Andrist <chris@...>
To: "hp8924@...m" <hp8924@yahoogroups.com>
Sent: Sunday, 3 March 2013, 21:05
Subject: Re: [hp8924] BTS Utilities was:[Screen capture on Win 7]

If your going to go through all the trouble to run Linux on an old PC, then why not just install Windows XP and it will work just fine.--
Chris Andrist
On Mar 3, 2013, at 12:04 PM, jim <jafconsulting@...> wrote:

>Having no luck with BTSUtils and Win 7;
>
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>
><IMG_0786_1.png>
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>
>
>73s
>jim

>ki6njf
>
>On Friday, March 01, 2013 09:43:52 AM I wrote:
>> I can't get the BTS software to run on a Windows 7 machine no matter what
>> compatibility mode I use.
>>
>

# 1414. Re: [hp8924] BTS Utilities was:[Screen capture on Win 7]

Yahoo group: hp8924
Date: 2013-03-05 00:58:27 UTC
From: jim
Topic: 1407  Message: 1414

Robert got it dead on. If you have a system that you don't or can't modify, this OS will boot and not touch the hard drive, In fact, it doesn't even need a hard drive to run - hence, it's usefulness on my old laptop with a dead hd.

It will also run on OLD machines, Pentium III and up to the latest and greatest CPU.

If you only have one machine with Windows 7 and don't want to install another OS, just boot from this CD (or even flash/pen/jump drive) when you're done, just reboot back to your original OS

73s jim ki6njf

On Monday, March 04, 2013 07:31:51 AM you wrote:

Hi Chris,
I'm no Linux guru, but I suspect a big advantage is it's not an install or dual boot. If you don't screen dump often you don't need an extra PC. Just put this CD in your drive, re-boot and capture your screen shots. Then just take the disk out and re-boot into whatever MS bloatware your PC normally runs on.

Robert G8RPI

From: Chris Andrist <chris@...>
To: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
Sent: Sunday, 3 March 2013, 21:05
Subject: Re: [hp8924] BTS Utilities was:[Screen capture on Win 7]

If your going to go through all the trouble to run Linux on an old PC, then why not just install Windows XP and it will work just fine.--
Chris Andrist
On Mar 3, 2013, at 12:04 PM, jim <jafconsulting@...> wrote:

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<IMG_0786_1.png>

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73s
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ki6njf

On Friday, March 01, 2013 09:43:52 AM I wrote:
> I can't get the BTS software to run on a Windows 7 machine no matter what
> compatibility mode I use.
>

# 1415. Re: BTS Utilities was:[Screen capture on Win 7]

Yahoo group: hp8924
Date: 2013-03-05 19:41:15 UTC
From: Silva
Topic: 1407  Message: 1415

Hello Robert,
nice to see You here...
I am also interested in this software.
Can You give more information about it please?
The memory card is working fine on my HP 8924E!
Thanks in advance and Best 73's,

Silva.

**********

Brazilian Ham Radio - ARRL Member

Callsign: PY8ELO

Name: Silva

Grid Locator: GI25ar

Address: POBOX 151 CEP 68180030

ITAITUBA - PA - BRAZIL

**********

"The quieter You become the more You are able to hear"

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Hi Chris,
> I'm no Linux guru, but I suspect a big advantage is it's not an install or dual boot.Â If you don't screen dump often you don't need an extra PC.Â Just put this CD in your drive, re-boot and capture your screen shots. Then just take the disk out and re-boot into whatever MS bloatware your PC normally runs on.
> Â
> Robert G8RPI
>
>
> _____
> From: Chris Andrist <chris@...>
> To: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
> Sent: Sunday, 3 March 2013, 21:05
> Subject: Re: [hp8924] BTS Utilities was:[Screen capture on Win 7]
>
> Â
> If your going to go through all the trouble to run Linux on an old PC, then why not just install Windows XP and it will work just fine.--
> Chris Andrist

> On Mar 3, 2013, at 12:04 PM, jim <jafconsulting@...> wrote:
> Â
> >Having no luck with BTSUtils and Win 7;
> >Â
> >I have created a Puppy Linux live boot CD that runs the BTS utilities under wine. The ISO file is here:http://vvgmc.org/freda/radio-puppy.iso feel free to donwload and use it. It's 326.7 MB.
> >Â
> >Windows users, if you don't have a program that will burn ISO files to CD/DVD try isoburn: http://isoburn.org/ (no interest, just a happy user)
> >Â
> >below is a photo of it running on a 700 MHz Pentiuum III machine with 384 MB of ram. It does not need a working hard drive. ( that's my vintage 2000 laptop with a dead hard drive in it. The BTSUtil program runs on it, now I just have to get a USB serial port to work with wine.)
> >Â
> ><IMG_0786_1.png>
> >Â
> >just boot the cd and click on the BTSUtil icon on the desktop, then set up the com port(s) you want to use.
> >Â
> >Note: I don't yet have it working with USB serial dongles.
> >Â
> >The puppy linux website: http://www.puppylinux.com/
> >The info page: http://www.puppylinux.com/info.htm
> >Â
> >Â
> >73s
> >jim
> >ki6njf
> >Â
> >On Friday, March 01, 2013 09:43:52 AM I wrote:
> >> I can't get the BTS software to run on a Windows 7 machine no matter what
> >> compatibility mode I use.
> >>
> >Â
>

# 1416. Re: [hp8924] Re: BTS Utilities was:[Screen capture on Win 7]

Yahoo group: hp8924
Date: 2013-03-05 21:37:25 UTC
From: jim
Topic: 1407  Message: 1416

Silva,
Jim, ki6njf, here. I'm the author of the puppy linux with the BTSUtil software additon. How may I help you?

This software is very easy to use. Download it from:
http://vvgmc.org/freda/radio-puppy.iso

burn it to a cd with software that understands ISO file types such as isoburn:
http://isoburn.org/

reboot the computer connected to you HP test set and click on the BTSUtil icon on the desktop. Then just run the BTSUtil as if it were on a windows system. You can copy the BMP file that you saved from BTSUtil to a flash/pen drive and walk it over to your main system or copy it over your local area network.

73s
jim
ki6njf

On Tuesday, March 05, 2013 07:41:15 PM you wrote:
> Hello Robert,
> nice to see You here...
> I am also interested in this software.
> Can You give more information about it please?
> The memory card is working fine on my HP 8924E!
> Thanks in advance and Best 73's,
>
> Silva.
>
> ****************************************
>
> Brazilian Ham Radio - ARRL Member
>
> Callsign: PY8ELO
>
> Name: Silva
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> Grid Locator: GI25ar
>
> Address: POBOX 151 CEP 68180030
>
> ITAITUBA - PA - BRAZIL
>
> ****************************************
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> "The quieter You become the more You are able to hear"

>
> --- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
> > Hi Chris,
> > I'm no Linux guru, but I suspect a big advantage is it's not an install or
> > dual boot.Â If you don't screen dump often you don't need an extra
> > PC.Â Just put this CD in your drive, re-boot and capture your screen
> > shots. Then just take the disk out and re-boot into whatever MS bloatware
> > your PC normally runs on. Â
> > Robert G8RPI
> >
> >
> > _____
> > From: Chris Andrist <chris@...>
> > To: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
> > Sent: Sunday, 3 March 2013, 21:05
> > Subject: Re: [hp8924] BTS Utilities was:[Screen capture on Win 7]
> >
> > Â
> > If your going to go through all the trouble to run Linux on an old PC,
> > then why not just install Windows XP and it will work just fine.-- Chris
> > Andrist
> > On Mar 3, 2013, at 12:04 PM, jim <jafconsulting@...> wrote:
> > Â
> >
> > >Having no luck with BTSUtils and Win 7;
> > >Â
> > >I have created a Puppy Linux live boot CD that runs the BTS utilities
> > >under wine. The ISO file is here:http://vvgmc.org/freda/radio-puppy.iso
> > >feel free to donwload and use it. It's 326.7 MB. Â
> > >Windows users, if you don't have a program that will burn ISO files to
> > >CD/DVD try isoburn: http://isoburn.org/ (no interest, just a happy user)
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> > >below is a photo of it running on a 700 MHz Pentiuum III machine with 384
> > >MB of ram. It does not need a working hard drive. ( that's my vintage
> > >2000 laptop with a dead hard drive in it. The BTSUtil program runs on
> > >it, now I just have to get a USB serial port to work with wine.) Â
> > ><IMG_0786_1.png>
> > >Â
> > >just boot the cd and click on the BTSUtil icon on the desktop, then set
> > >up the com port(s) you want to use. Â
> > >Note: I don't yet have it working with USB serial dongles.
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> > >The puppy linux website: http://www.puppylinux.com/
> > >The info page: http://www.puppylinux.com/info.htm
> > >Â
> > >Â
> > >73s
> > >jim
> > >ki6njf
> > >Â

> > >
> > >On Friday, March 01, 2013 09:43:52 AM I wrote:
> > >> I can't get the BTS software to run on a Windows 7 machine no matter
> > >> what
> > >> compatibility mode I use.
> > >
> > >Â
>
>

# 1417. Re: BTS Utilities was:[Screen capture on Win 7]

Yahoo group: hp8924
Date: 2013-03-06 11:30:29 UTC
From: Silva
Topic: 1407  Message: 1417

Hi Jim,
I has downloaded the image file and burned it to CD but I get a "kernel panic" message when I booted my PC with the CD.
I has burned the CD using Nero 4.0 for linux on my PC running Ubuntu 10.04 LTS.
Can You help me please.

Thanks in advance and Best 73's,

Silva.

**********

Brazilian Ham Radio - ARRL Member

Callsign: PY8ELO

Name: Silva

Grid Locator: GI25ar

Address: POBOX 151 CEP 68180030

ITAITUBA - PA - BRAZIL

**********

"The quieter You become the more You are able to hear"

--- In hp8924@yahoogroups.com, jim <jafconsulting@...> wrote:
>
> Silva,
> Jim, ki6njf, here. I'm the author of the puppy linux with the BTSUtil
> software additon. How may I help you?
>
> This software is very easy to use. Download it from:
> http://vvgmc.org/freda/radio-puppy.iso
>
> burn it to a cd with software that understands ISO file types such as isoburn:
> http://isoburn.org/
>
> reboot the computer connected to you HP test set and click on the BTSUtil icon
> on the desktop. Then just run the BTSUtil as if it were on a windows system.
> You can copy the BMP file that you saved from BTSUtil to a flash/pen drive and
> walk it over to your main system or copy it over your local area network.
>
> 73s
> jim
> ki6njf

>
>
> On Tuesday, March 05, 2013 07:41:15 PM you wrote:
> > Hello Robert,
> > nice to see You here...
> > I am also interested in this software.
> > Can You give more information about it please?
> > The memory card is working fine on my HP 8924E!
> > Thanks in advance and Best 73's,
> >
> > Silva.
> >
> > ****************************************
> >
> > Brazilian Ham Radio - ARRL Member
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> > Callsign: PY8ELO
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> > Name: Silva
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> > Grid Locator: GI25ar
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> > Address: POBOX 151 CEP 68180030
> >
> > ITAITUBA - PA - BRAZIL
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> >
> > "The quieter You become the more You are able to hear"
> >
> > --- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@> wrote:
> > > Hi Chris,
> > > I'm no Linux guru, but I suspect a big advantage is it's not an install or
> > > dual boot.Â If you don't screen dump often you don't need an extra
> > > PC.Â Just put this CD in your drive, re-boot and capture your screen
> > > shots. Then just take the disk out and re-boot into whatever MS bloatware
> > > your PC normally runs on. Â
> > > Robert G8RPI
> > >
> > >
> > > _____
> > > From: Chris Andrist <chris@>
> > > To: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
> > > Sent: Sunday, 3 March 2013, 21:05
> > > Subject: Re: [hp8924] BTS Utilities was:[Screen capture on Win 7]
> > >
> > > Â
> > > If your going to go through all the trouble to run Linux on an old PC,
> > > then why not just install Windows XP and it will work just fine.-- Chris
> > > Andrist

> > > On Mar 3, 2013, at 12:04 PM, jim <jafconsulting@> wrote:
> > > Â
> > >
> > > >Having no luck with BTSUtils and Win 7;
> > > >Â
> > > >I have created a Puppy Linux live boot CD that runs the BTS utilities
> > > >under wine. The ISO file is here:http://vvgmc.org/freda/radio-puppy.iso
> > > >feel free to donwload and use it. It's 326.7 MB. Â
> > > >Windows users, if you don't have a program that will burn ISO files to
> > > >CD/DVD try isoburn: http://isoburn.org/ (no interest, just a happy user)
> > > >Â
> > > >below is a photo of it running on a 700 MHz Pentiuum III machine with 384
> > > >MB of ram. It does not need a working hard drive. ( that's my vintage
> > > >2000 laptop with a dead hard drive in it. The BTSUtil program runs on
> > > >it, now I just have to get a USB serial port to work with wine.) Â
> > > ><IMG_0786_1.png>
> > > >Â
> > > >just boot the cd and click on the BTSUtil icon on the desktop, then set
> > > >up the com port(s) you want to use. Â
> > > >Note: I don't yet have it working with USB serial dongles.
> > > >Â
> > > >The puppy linux website: http://www.puppylinux.com/
> > > >The info page: http://www.puppylinux.com/info.htm
> > > >Â
> > > >Â
> > > >73s
> > > >jim
> > > >ki6njf
> > > >Â
> > > >
> > > >On Friday, March 01, 2013 09:43:52 AM I wrote:
> > > >> I can't get the BTS software to run on a Windows 7 machine no matter
> > > >> what
> > > >> compatibility mode I use.
> > > >
> > > >Â
> >
> >
>

# 1418. Re: [hp8924] Re: BTS Utilities was:[Screen capture on Win 7]

Yahoo group: hp8924
Date: 2013-03-06 14:09:49 UTC
From: Brad Thompson
Topic: 1407  Message: 1418

On 3/6/2013 6:30 AM, Silva wrote:
> Hi Jim,
> I has downloaded the image file and burned it to CD but I get a "kernel
> panic" message when I booted my PC with the CD.
> I has burned the CD using Nero 4.0 for linux on my PC running Ubuntu
> 10.04 LTS.

Hello--

Likewise-- strangely, the "kernel panic" left my test
PC in an odd mode. Its "power off" switch was inoperative
(I pulled the AC power cord to shut down the system),
and the keyboard's "scroll lock" and "caps lock" LEDs
were blinking and nonresponsive to their key switches.

I burned the CD with IsoBurner for Windows on a PC
running Windows XP, so my hunch is that there's nothing
wrong with Silva's procedure.

Hope this helps, and 73--

Brad AA1IP

# 1419. Re: BTS Utilities was:[Screen capture on Win 7]

Yahoo group: hp8924
Date: 2013-03-06 14:49:42 UTC
From: Silva
Topic: 1407  Message: 1419

Hello Brad,
greetings from Brazil!!!
The same happens here...
I had to pulled the AC power cord to shut down the system too...
I will burn a new CD under Windows XP to test again. But I believe sothing is wrong with the CD image file!

Best 73's,

Silva.

--- In hp8924@yahoogroups.com, Brad Thompson <brad.thompson@...> wrote:
>
> On 3/6/2013 6:30 AM, Silva wrote:
> > Hi Jim,
> > I has downloaded the image file and burned it to CD but I get a "kernel
> > panic" message when I booted my PC with the CD.
> > I has burned the CD using Nero 4.0 for linux on my PC running Ubuntu
> > 10.04 LTS.
>
> Hello--
>
> Likewise-- strangely, the "kernel panic" left my test
> PC in an odd mode. Its "power off" switch was inoperative
> (I pulled the AC power cord to shut down the system),
> and the keyboard's "scroll lock" and "caps lock" LEDs
> were blinking and nonresponsive to their key switches.
>
> I burned the CD with IsoBurner for Windows on a PC
> running Windows XP, so my hunch is that there's nothing
> wrong with Silva's procedure.
>
> Hope this helps, and 73--
>
> Brad AA1IP
>

# 1420. Re: [hp8924] Re: BTS Utilities was:[Screen capture on Win 7]

Yahoo group: hp8924
Date: 2013-03-06 15:31:43 UTC
From: jim
Topic: 1407  Message: 1420

I do apologize, there was a problem with the file size. It was too small.

I've re-uploaded it, and then check the md5 sum of the download file with the original. they match now.

http://vvgmc.org/freda/radio-puppy.iso

jim

On Wednesday, March 06, 2013 02:49:42 PM you wrote:
> Hello Brad,
> greetings from Brazil!!!
> The same happens here...
> I had to pulled the AC power cord to shut down the system too...
> I will burn a new CD under Windows XP to test again. But I believe sothing
> is wrong with the CD image file!
>
> Best 73's,
>
> Silva.
>
> --- In hp8924@yahoogroups.com, Brad Thompson <brad.thompson@...> wrote:
> > On 3/6/2013 6:30 AM, Silva wrote:
> > > Hi Jim,
> > > I has downloaded the image file and burned it to CD but I get a "kernel
> > > panic" message when I booted my PC with the CD.
> > > I has burned the CD using Nero 4.0 for linux on my PC running Ubuntu
> > > 10.04 LTS.
> >
> > Hello--
> >
> > Likewise-- strangely, the "kernel panic" left my test
> > PC in an odd mode. Its "power off" switch was inoperative
> > (I pulled the AC power cord to shut down the system),
> > and the keyboard's "scroll lock" and "caps lock" LEDs
> > were blinking and nonresponsive to their key switches.
> >
> > I burned the CD with IsoBurner for Windows on a PC
> > running Windows XP, so my hunch is that there's nothing
> > wrong with Silva's procedure.
> >
> > Hope this helps, and 73--
> >
> > Brad AA1IP
>

# 1421. Re: [hp8924] Re: BTS Utilities was:[Screen capture on Win 7]

Yahoo group: hp8924
Date: 2013-03-06 16:19:25 UTC
From: Brad Thompson
Topic: 1407  Message: 1421

On 3/6/2013 10:31 AM, jim wrote:
> I do apologize, there was a problem with the file size. It was too small.
>
> I've re-uploaded it, and then check the md5 sum of the download file with the
> original. they match now.
>
> http://vvgmc.org/freda/radio-puppy.iso
>
Hello, Jim--

That dawg won't hunt<g> [1]. I burned a CD using the new iso image and
the same set of problems occurred (please see my earlier message).

The boot routine displayed...

Performing a "switch root" to layered file system-
[107.408414] Kernel Panic-- not syncing, attempted to kill init

(Followed by four more messages) The PC locked up, with keyboard
lights blinking.

Hope this helps, and 73--

Brad AA1IP

*******
Explanatory note:

[1]Meaning:

That dog won't hunt is a US phrase meaning something won't fulfil its
intended purpose, or a plan or scheme will fail.

Origin: It is southern US slang, originally that old dog won't hunt
meaning something just isn't going to happen.

http://english.stackexchange.com/questions/52755/meaning-and-origin-of-that-dog-dont-hunt

# 1422. Re: BTS Utilities was:[Screen capture on Win 7]

Yahoo group: hp8924
Date: 2013-03-06 18:37:25 UTC
From: Silva
Topic: 1407  Message: 1422

Hello Jim,
the file size is the same!
I believe it will cause thye same error!
I hope You can correct it!

73's,

Silva.

**********

Brazilian Ham Radio - ARRL Member

Callsign: PY8ELO

Name: Silva

Grid Locator: GI25ar

Address: POBOX 151 CEP 68180030

ITAITUBA - PA - BRAZIL

**********

"The quieter You become the more You are able to hear"

--- In hp8924@yahoogroups.com, jim <jafconsulting@...> wrote:
>
> I do apologize, there was a problem with the file size. It was too small.
>
> I've re-uploaded it, and then check the md5 sum of the download file with the
> original. they match now.
>
> http://vvgmc.org/freda/radio-puppy.iso
>
> jim
>
> On Wednesday, March 06, 2013 02:49:42 PM you wrote:
> > Hello Brad,
> > greetings from Brazil!!!
> > The same happens here...
> > I had to pulled the AC power cord to shut down the system too...
> > I will burn a new CD under Windows XP to test again. But I believe sothing
> > is wrong with the CD image file!
> >
> > Best 73's,
> >

> > Silva.
> >
> > --- In hp8924@yahoogroups.com, Brad Thompson <brad.thompson@> wrote:
> > > On 3/6/2013 6:30 AM, Silva wrote:
> > > > Hi Jim,
> > > > I has downloaded the image file and burned it to CD but I get a "kernel
> > > > panic" message when I booted my PC with the CD.
> > > > I has burned the CD using Nero 4.0 for linux on my PC running Ubuntu
> > > > 10.04 LTS.
> > >
> > > Hello--
> > >
> > > Likewise-- strangely, the "kernel panic" left my test
> > > PC in an odd mode. Its "power off" switch was inoperative
> > > (I pulled the AC power cord to shut down the system),
> > > and the keyboard's "scroll lock" and "caps lock" LEDs
> > > were blinking and nonresponsive to their key switches.
> > >
> > > I burned the CD with IsoBurner for Windows on a PC
> > > running Windows XP, so my hunch is that there's nothing
> > > wrong with Silva's procedure.
> > >
> > > Hope this helps, and 73--
> > >
> > > Brad AA1IP
> >
>

# 1423. Re: [hp8924] Re: BTS Utilities was:[Screen capture on Win 7]

Yahoo group: hp8924
Date: 2013-03-06 21:23:26 UTC
From: jim
Topic: 1407  Message: 1423

Brad, I cannot get it to fail from a linux system, next locate a windows system and use iosburn to generate the bootable cd to see if that is an issue.

The locking up of the keyboard and blinking lights is the standard response to a kernel panic.

Silva, could you check the md5 sum of the file on your Ubuntu system?

Use the command md5sum radio-puppy.iso from the directory that the iso file is in. It should reply: d93f69e26c370566713c0b7e5898f92b radio-puppy.iso

jim

On Wednesday, March 06, 2013 11:19:25 AM you wrote:
> On 3/6/2013 10:31 AM, jim wrote:
> > I do apologize, there was a problem with the file size. It was too small.
> >
> > I've re-uploaded it, and then check the md5 sum of the download file with
> > the original. they match now.
> >
> > http://vvgmc.org/freda/radio-puppy.iso
>
> Hello, Jim--
>
> That dawg won't hunt<g> [1]. I burned a CD using the new iso image and
> the same set of problems occurred (please see my earlier message).
>
> The boot routine displayed...
>
> Performing a "switch root" to layered file system-
> [107.408414] Kernel Panic-- not syncing, attempted to kill init
>
> (Followed by four more messages) The PC locked up, with keyboard
> lights blinking.
>
> Hope this helps, and 73--
>
> Brad AA1IP
>
> *******
> Explanatory note:
>
> [1]Meaning:
>
> That dog won't hunt is a US phrase meaning something won't fulfil its
> intended purpose, or a plan or scheme will fail.

>
> Origin: It is southern US slang, originally that old dog won't hunt
> meaning something just isn't going to happen.
>
>
> http://english.stackexchange.com/questions/52755/meaning-and-origin-of-that-
> dog-dont-hunt

# 1424. Re: BTS Utilities was:[Screen capture on Win 7]

Yahoo group: hp8924
Date: 2013-03-07 11:57:50 UTC
From: Silva
Topic: 1407  Message: 1424

Hello Jim,
I has downloaded the once more and I get the correct md5sum at this time:
d93f69e26c370566713c0b7e5898f92b radio-puppy.iso
I will burn it and try again.

Best regards,

Silva.

**********

Brazilian Ham Radio - ARRL Member

Callsign: PY8ELO

Name: Silva

Grid Locator: GI25ar

Address: POBOX 151 CEP 68180030

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"The quieter You become the more You are able to hear"

--- In hp8924@yahoogroups.com, jim <jafconsulting@...> wrote:
>
> Brad, I cannot get it to fail from a linux system, next locate a windows
> system and use iosburn to generate the bootable cd to see if that is an issue.
>
> The locking up of the keyboard and blinking lights is the standard response to
> a kernel panic.
>
> Silva, could you check the md5 sum of the file on your Ubuntu system?
>
> Use the command md5sum radio-puppy.iso from the directory that the iso file is
> in. It should reply: d93f69e26c370566713c0b7e5898f92b radio-puppy.iso
>
> jim
>
> On Wednesday, March 06, 2013 11:19:25 AM you wrote:
> > On 3/6/2013 10:31 AM, jim wrote:
> > > I do apologize, there was a problem with the file size. It was too small.
> > >
> > > I've re-uploaded it, and then check the md5 sum of the download file with
> > > the original. they match now.

> > >
> > > http://vvgmc.org/freda/radio-puppy.iso
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> > Hello, Jim--
> >
> > That dawg won't hunt<g> [1]. I burned a CD using the new iso image and
> > the same set of problems occurred (please see my earlier message).
> >
> > The boot routine displayed...
> >
> > Performing a "switch root" to layered file system-
> > [107.408414] Kernel Panic-- not syncing, attempted to kill init
> >
> > (Followed by four more messages) The PC locked up, with keyboard
> > lights blinking.
> >
> > Hope this helps, and 73--
> >
> > Brad AA1IP
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> > *******
> > Explanatory note:
> >
> > [1]Meaning:
> >
> > That dog won't hunt is a US phrase meaning something won't fulfil its
> > intended purpose, or a plan or scheme will fail.
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> > Origin: It is southern US slang, originally that old dog won't hunt
> > meaning something just isn't going to happen.
> >
> >
> > http://english.stackexchange.com/questions/52755/meaning-and-origin-of-that-
> > dog-dont-hunt
>

# 1425. Re: BTS Utilities was:[Screen capture on Win 7]

Yahoo group: hp8924
Date: 2013-03-07 12:45:45 UTC
From: Silva
Topic: 1407  Message: 1425

Running from puppy CD now...
I will be back soon...

Best regards,

Silva.
--- In hp8924@yahoogroups.com, "Silva" <py8elo@...> wrote:
>
> Hello Jim,
> I has downloaded the once more and I get the correct md5sum at this time:
d93f69e26c370566713c0b7e5898f92b radio-puppy.iso
> I will burn it and try again.
>
> Best regards,
>
> Silva.
>
>
> ****************************************
>
> Brazilian Ham Radio - ARRL Member
>
> Callsign: PY8ELO
>
> Name: Silva
>
> Grid Locator: GI25ar
>
> Address: POBOX 151 CEP 68180030
>
> ITAITUBA - PA - BRAZIL
>
> ****************************************
>
> "The quieter You become the more You are able to hear"
>
> --- In hp8924@yahoogroups.com, jim <jafconsulting@> wrote:
> >
> > Brad, I cannot get it to fail from a linux system, next locate a windows
> > system and use iosburn to generate the bootable cd to see if that is an issue.
> >
> > The locking up of the keyboard and blinking lights is the standard response to
> > a kernel panic.
> >
> > Silva, could you check the md5 sum of the file on your Ubuntu system?

> >
> > Use the command md5sum radio-puppy.iso from the directory that the iso file is
> > in. It should reply: d93f69e26c370566713c0b7e5898f92b radio-puppy.iso
> >
> > jim
> >
> > On Wednesday, March 06, 2013 11:19:25 AM you wrote:
> > > On 3/6/2013 10:31 AM, jim wrote:
> > > > I do apologize, there was a problem with the file size. It was too small.
> > > >
> > > > I've re-uploaded it, and then check the md5 sum of the download file with
> > > > the original. they match now.
> > > >
> > > > http://vvgmc.org/freda/radio-puppy.iso
> > >
> > > Hello, Jim--
> > >
> > > That dawg won't hunt<g> [1]. I burned a CD using the new iso image and
> > > the same set of problems occurred (please see my earlier message).
> > >
> > > The boot routine displayed...
> > >
> > > Performing a "switch root" to layered file system-
> > > [107.408414] Kernel Panic-- not syncing, attempted to kill init
> > >
> > > (Followed by four more messages) The PC locked up, with keyboard
> > > lights blinking.
> > >
> > > Hope this helps, and 73--
> > >
> > > Brad AA1IP
> > >
> > > *******
> > > Explanatory note:
> > >
> > > [1]Meaning:
> > >
> > > That dog won't hunt is a US phrase meaning something won't fulfil its
> > > intended purpose, or a plan or scheme will fail.
> > >
> > > Origin: It is southern US slang, originally that old dog won't hunt
> > > meaning something just isn't going to happen.
> > >
> > >
> > > http://english.stackexchange.com/questions/52755/meaning-and-origin-of-that-
> > > dog-dont-hunt
> >
>

# 1426. Re: Video Capture

Yahoo group: hp8924
Date: 2013-03-07 19:28:21 UTC
From: kc7wsu
Topic: 1401  Message: 1426

So, I think I found a solution.

I just ordered an MVC007 off ebay to output to VGA, because I wanted the VGA output anyways. I also ordered an Epiphan VGA2USB adapter. http://www.amazon.com/Epiphan-Systems-VGA2USB-External-Capture/dp/B000UO94DU/ref=sr_1_1?ie=UTF8&qid=1362684357&sr=8-1&keywords=epiphan

So the MVC007 will give me VGA and the VGA2USB will capture the VGA to my PC.

I will post back once I get both to let everybody know. I really hope this works.

Regards,

Chris Andrist, KC7WSU

--- In hp8924@yahoogroups.com, "kc7wsu" <chris@...> wrote:
>
> I should have my 8924c from Rick in the next few days.
>
> I want to be able to record what is happening on the screen so that I can us it in video demonstrations.
>
> I am wondering if anybody knows how to capture the video out from the 8924c. I know there are lots of adapters to convert it to VGA, but I wonder if I can bypass that step and go straight from the 8924c to the computer?
>
> Regards,
>
> Chris Andrist, KC7WSU
>

# 1427. Sinad Test

Yahoo group: hp8924
Date: 2013-03-08 16:50:08 UTC
From: kj4jtt
Topic: 1427  Message: 1427

I have a test that I perform often using a stand alone Sinad meter. The 8924C internal function is too wide. Anyone know of a setting or adjustment to narrow it down?

Lee

# 1428. Re: [hp8924] Sinad Test

Yahoo group: hp8924
Date: 2013-03-08 17:04:48 UTC
From: Ralph Mowery
Topic: 1427  Message: 1428

Could you explain a little about what is too wide ?

If it is the sinad meter part of the 8924c moving around too much, that can be made smoother and slower by putting in a larger number for the averaging.

I don't have my 8924 handy right now to tell the exect thing to do, but mainly you highlight the sinad  part of the screen and hit the AVG button.  You may have to hit the function button so you get the ave instead of something else.  Then you put in  alarger number such as 20.

Then you have to make the adjustments slower.

--- On Fri, 3/8/13, kj4jtt <kj4jtt@tampabay.rr.com> wrote:

From: kj4jtt <kj4jtt@...>
Subject: [hp8924] Sinad Test
To: hp8924@yahoogroups.com
Date: Friday, March 8, 2013, 11:50 AM

I have a test that I perform often using a stand alone Sinad meter. The 8924C internal function is too wide. Anyone know of a setting or adjustment to narrow it down?

Lee

# 1429. Re: Sinad Test

Yahoo group: hp8924
Date: 2013-03-08 18:08:53 UTC
From: kj4jtt
Topic: 1427  Message: 1429

The notch appears to be too wide. Like - 400hz wide (+-200). It seems that it once worked close to the Sinadder readings and I may have set something somewhere.....

# 1430. Re: Sinad Test

Yahoo group: hp8924
Date: 2013-03-09 17:16:08 UTC
From: Joe Leikhim
Topic: 1427  Message: 1430

There was a service bulletin explaining an accuracy discrepancy with the built in Sinadder. Indeed the filtering is to blame. I do not recall a fix or work around.

Sent from my iPod

# 1431. Re: Sinad Test

Yahoo group: hp8924
Date: 2013-03-10 14:09:33 UTC
From: kernkampj
Topic: 1427  Message: 1431

The notch filter is on the Audio Analyzer 2 Board (A2). I have uploaded a schematic of the filter in case someone has the time to look into modifying it to work correctly.

John K.
==========

--- In hp8924@yahoogroups.com, Joe Leikhim <rhyolite@...> wrote:
>
> There was a service bulletin explaining an accuracy discrepancy with the built in Sinadder. Indeed the filtering is to blame. I do not recall a fix or work around.
>
> Sent from my iPod
>

# 1432. Re: [hp8924] Re: Sinad Test

Yahoo group: hp8924
Date: 2013-03-10 15:01:38 UTC
From: Ross Johnson
Topic: 1427  Message: 1432

Sorry I missed the explanation of this post but are you saying the sinad values are not correct? Is this by a large amount?

From: Joe Leikhim
Sent: Saturday, March 9, 2013 9:16 AM
To: hp8924@yahoogroups.com
Subject: [hp8924] Re: Sinad Test

There was a service bulletin explaining an accuracy discrepancy with the built in Sinadder. Indeed the filtering is to blame. I do not recall a fix or work around.

Sent from my iPod

# 1433. Re: Sinad Test

Yahoo group: hp8924
Date: 2013-03-11 09:40:54 UTC
From: wb6dgn_tom@att.net
Topic: 1427  Message: 1433

I wonder if this applies to the 8920A/B as well. Does anybody know? If not, it would be interesting to compare the circuits to determine the difference and whether that would lead to a mod.
Tom

--- In hp8924@yahoogroups.com, Joe Leikhim <rhyolite@...> wrote:
>
> There was a service bulletin explaining an accuracy discrepancy with the built in Sinadder. Indeed the filtering is to blame. I do not recall a fix or work around.
>
> Sent from my iPod
>

# 1434. Sinad Tests

Yahoo group: hp8924
Date: 2013-03-11 16:09:13 UTC
From: kernkampj
Topic: 1427  Message: 1434

I did some comparison tests with the 8924C and my Motorola R2001C.

Here are the results -

SINAD
Signal Source - HP HP Mot
-118 dBm - 12.5 12.7
-115 dBm - 19.1 19.4

SINAD
Signal Source - Mot HP Mot
-118 dBm - 13.3 13.7
-115 dBm - 19.3 19.7

There does appear to be a small difference in the SINAD determination of the two instruments, but I'm not sure if the difference is worth worrying about.

It also appears that there is a slight difference in the RF output levels between the two instruments. I'll have to look into that.

# 1435. Re: [hp8924] Sinad Tests

Yahoo group: hp8924
Date: 2013-03-11 22:02:12 UTC
From: Ralph Mowery
Topic: 1427  Message: 1435

There does seem to be a small ammount of differance, but not enough to worry about.

If you look at the specs of the instruments, you will see they are probably  within tollorance.

I worked for a company where part of the job was calibrating instruments.  Our test equipment in the shop was sent out every year to a calibration center that could be traced to government standards.  We used a computer test data base that would not let an instrument pass if it was more than .5% off at any of 5 test points in the range.

While the readout in the instruments in the process were to two or sometimes 3 decimal places, the actjual value could be off a lot.  One example was temperature.  At 300 deg C. we could read it to 3 decimal places , but it could actually be off 2 or 3 deg.

Too many people make a big deal over nothing when it comes to what the instruments show. You just use the same instrument and hope it stays off by the same ammount from day to day.

As they say, a man with one clock knowes what time it is, but a man with two clocks is never really sure.

I have an old signal generator like they show in the old GE Mastr ll manuals.  It compairs close enough to my 8924c for me. Not perfect, but close enough.

--- On Mon, 3/11/13, kernkampj <kernkampj@...> wrote:

From: kernkampj <kernkampj@...>
Subject: [hp8924] Sinad Tests
To: hp8924@yahoogroups.com
Date: Monday, March 11, 2013, 12:09 PM

I did some comparison tests with the 8924C and my Motorola R2001C.

Here are the results -

| | SINAD | |
|---|---|---|
| Signal Source - HP | HP | Mot |
| -118 dBm - | 12.5 | 12.7 |
| -115 dBm - | 19.1 | 19.4 |

| | SINAD | |
|---|---|---|
| Signal Source - Mot | HP | Mot |
| -118 dBm - | 13.3 | 13.7 |
| -115 dBm - | 19.3 | 19.7 |

There does appear to be a small difference in the SINAD determination of the two instruments, but I'm not sure if the difference is worth worrying about.

It also appears that there is a slight difference in the RF output levels between the two instruments.  I'll have to look into that.

# 1436. Re: Sinad Test

Yahoo group: hp8924
Date: 2013-03-12 12:53:49 UTC
From: kernkampj
Topic: 1427  Message: 1436

If your 8920 has the fixed-frequency notch filter, and not the variable-frequency option, the circuit is the same.
==========

--- In hp8924@yahoogroups.com, "wb6dgn_tom@..." <wb6dgn_tom@...> wrote:
>
> I wonder if this applies to the 8920A/B as well. Does anybody know? If not, it would be interesting to compare the circuits to determine the difference and whether that would lead to a mod.
> Tom

# 1437. Re: Sinad Test

Yahoo group: hp8924
Date: 2013-03-12 17:55:30 UTC
From: Joe Leikhim
Topic: 1427  Message: 1437

I tried to find the bulletin I mentioned. I downloaded a bunch of stuff from Agilent when it was still available, now have so much, I could not find it.

The bulletin compared the 892X with another Agilent product. If I recall it was a larger discrepancy than you noted. It would be interesting to see how an analog Helper Industries SINADDER or the standalone Motorola automatic SINADDER reads out. Realistically, getting an accurate SINAD value is always a challenge. When I used to do this every day, my ears were as repeatable and "accurate" as the meter. No kidding.

--
Joe Leikhim

Leikhim and Associates

Communications Consultants

Oviedo, Florida

JLeikhim@...

407-982-0446

WWW.LEIKHIM.COM

# 1438. Re: [hp8924] Re: Sinad Test

Yahoo group: hp8924
Date: 2013-03-12 20:52:13 UTC
From: Ralph Mowery
Topic: 1427  Message: 1438

Here is one bulletin that describs some ways the sinad can be differfant.  From a quick read it seems that the notch filter and how the audio is processed can make a db or two of differance.

For the most part, in the field it is not going to make any real differance.  Just use the same  test set and tune for the best.

http://cp.literature.agilent.com/litweb/pdf/5990-8047EN.pdf

--- On Tue, 3/12/13, Joe Leikhim <rhyolite@nettally.com> wrote:

From: Joe Leikhim <rhyolite@...>
Subject: [hp8924] Re: Sinad Test
To: hp8924@yahoogroups.com
Date: Tuesday, March 12, 2013, 1:55 PM

I tried to find the bulletin I mentioned. I downloaded a bunch of stuff from Agilent when it was still available, now have so much, I could not find it.

The bulletin compared the 892X with another Agilent product. If I recall it was a larger discrepancy than you noted. It would be interesting to see how an analog Helper Industries SINADDER or the standalone Motorola automatic SINADDER reads out. Realistically, getting an accurate SINAD value is always a challenge. When I used to do this every day, my ears were as repeatable and "accurate" as the meter. No kidding.

--
Joe Leikhim

# 1439. Re: [hp8924] Re: Sinad Test

Yahoo group: hp8924
Date: 2013-03-12 21:13:00 UTC
From: Ralph Mowery
Topic: 1427  Message: 1439

This may be it.
http://wireless.agilent.com/rfcomms/refdocs/gsmgprs/meas_sinad_desc.html

Here is the inportant part.

Difference in Agilent 8960 Series 10 and 8920B Test Set SINAD Measurements
If you have previously used the Agilent 8920B RF Communications Test Set to measure SINAD, you may notice that the Agilent 8960 Series 10 test set's SINAD value may be higher by up to 0.8 dB when measuring 12 dB SINAD. This is due to the more precise digital notch filter used by the Agilent 8960, allowing a more accurate noise measurement to be made. The Agilent 8920B uses an analog filter that does not have as precise a filter notch as the Agilent 8960.

--- On Tue, 3/12/13, Joe Leikhim <rhyolite@...> wrote:

From: Joe Leikhim <rhyolite@...>
Subject: [hp8924] Re: Sinad Test
To: hp8924@yahoogroups.com
Date: Tuesday, March 12, 2013, 1:55 PM

I tried to find the bulletin I mentioned. I downloaded a bunch of stuff from Agilent when it was still available, now have so much, I could not find it.

The bulletin compared the 892X with another Agilent product. If I recall it was a larger discrepancy than you noted. It would be interesting to see how an analog Helper Industries SINADDER or the standalone Motorola automatic SINADDER reads out. Realistically, getting an accurate SINAD value is always a challenge. When I used to do this every day, my ears were as repeatable and "accurate" as the meter. No kidding.

--
Joe Leikhim

# 1440. Re: [hp8924] Re: Sinad Test

Yahoo group: hp8924
Date: 2013-03-12 21:25:23 UTC
From: Ralph Mowery
Topic: 1427  Message: 1440

Here is another with a graph showing how wide the audio notch is in two instruments.
http://wireless.agilent.com/rfcomms/refdocs/is136/is136_meas_sinad_desc.html

--- On Tue, 3/12/13, Joe Leikhim <rhyolite@...> wrote:

From: Joe Leikhim <rhyolite@...>
Subject: [hp8924] Re: Sinad Test
To: hp8924@yahoogroups.com
Date: Tuesday, March 12, 2013, 1:55 PM

I tried to find the bulletin I mentioned. I downloaded a bunch of stuff
from Agilent when it was still available, now have so much, I could not
find it.

# 1441. HP 8924E Attenuator error

Yahoo group: hp8924
Date: 2013-03-12 22:54:25 UTC
From: Silva
Topic: 1441  Message: 1441

Hi all,
today I was working on a equipemnt and my HP 8924E was reading the power about 3dBm when suddenly it reads about -28dBm. Then I has checked the power with another service monitor and I was noticed the power is the same as before 3dBm. Back to HP 8924E again and I gaet just -28dBm.
I think it is some attenuator the culprit.
Any ideas to solve this issue?

Thanks in advance and Best regards,

Silva.

**********
Brazilian Ham Radio - ARRL Member
Callsign: PY8ELO
Name: Silva
Grid Locator: GI25ar
Address: POBOX 151 CEP 68180030
ITAITUBA - PA - BRAZIL
**********
AMAZON FOREST, THE WORLD'S LUNG!
**********

# 1442. Re: Sinad Test

Yahoo group: hp8924
Date: 2013-03-12 23:00:37 UTC
From: kj4jtt
Topic: 1427  Message: 1442

Well, I have compared the 2. We have NIST traceability. Our lab has a Helper Sinadder 101. It's old. It's amazing! Infinite on the left end of the scale. 0 (zero) on the right. Put a 1khz in it and the meter doesn't move. Run the volume up and down - meter doesn't move until you get clipping from the audio amp itself. Change the freq to 995 or 1005 hz - meter moves to 30db. 3 more hz change - 20db. Each 1hz step is clearly visible on the meter. I have zero beat with a 10mhz signal from the NIST interface and WWV at 10 mhz using an HF receiver SSB mode set 1 khz below freq and the meter lays at the peg except for the ticks and then goes crazy during the time announcement.The later Sinadders have wider notches like about anything else. We also have a Sinadder 3. it's a wider notch too. A different Sinad meter standard was set ( I think) in 1982. The calibration check says in the manual to be certain your 1khz tone is within 5hz, 5hz!

How do the Helper and HP differ when performing a Sinad test? Not much at all! Does it really matter if your 2m fm rig has .21 or .23 uV sensitivity?

As for SNR and distortion - I have seen only a few cases where there was much difference. The Helper once led me to a 900hz leak through a faulty diode.

I asked the question to see if anyone knew of a setting I had overlooked to change the width of the notch. I did not intend to imply that we were using faulty equipment and set off a panic.

When following the procedure making a test with the Sinad function the results are accurate to 1 db. I tested it last week on 2 different Bendix-King units and they read just as they did using dedicated stand-alone devices.

I have a procedure I do several times a day that involves zero -beating 2 1khz tones. It takes a few seconds on the Helper. The 8924 shows it's good when 100 hz off.
But then, it wasn't designed for this test. I was just trying to use the 8924 to eliminate a few pieces of equipment on Test Bench 1 so I could set up a Test Bench 3 with minimum investment. Looks like the Helper Sinadder will stay on Bench 1.

I have played with the 8924 extensively for the last 2 weeks. I have learned about 10% of it!

For it's intended use - the 8924 is perfect. All in one box. Bench 1 has a 1ghz scope, function generator, a 1ghz rf generator, a 2.5ghz freq counter, a distortion analyzer, a 10 ghz spectrum analyzer, a 10 ghz power meter (all HP), a Boonton micro wattmeter, a Boonton millivolt meter, Lampkin Deviation meter. At a cost of nearly $100K. Each has far more versatility than that section of the 8924. Is the finished product going to be any better? No.
I am going to get one for myself!

I have the schematic of the Helper unit if anyone wants to look at the circuit to suggest some changes to notch filter width in the 8924. I'll gladly change a few components.....

Lee
W9DKC

# 1443. Re: [hp8924] Re: Sinad Test

Yahoo group: hp8924
Date: 2013-03-13 05:00:24 UTC
From: Ralph Mowery
Topic: 1427  Message: 1443

I have what I guess is an origional Helper Sinader.  The one with the sloping case.

I hooked it up the my 8924c and looped the audio of the 8924c in and out and set it up for sinad.  It does not take much off frequency from the nominal 1000 hz for it to really show up on the Helper, but it takes a lot, like 100 hz or 150 hz off before the 8924c sinad meter moves very much.

Like you said, probably not any real differance in a receiver, but not up to doing your special test.

There is not much the 8924c won't do.  It does take a while to learn it and the book is not much if you do not do the old cell phones.  You have to get the 8920 book and learn the differance in the buttons to really get a lot out of the books.

Outside of weighing 60 pounds it is about the best unit for the money.  Especially if you can find one with a 60 or 100 watt input.

--- On Tue, 3/12/13, kj4jtt <kj4jtt@...> wrote:

From: kj4jtt <kj4jtt@tampabay.rr.com>
Subject: [hp8924] Re: Sinad Test
To: hp8924@yahoogroups.com
Date: Tuesday, March 12, 2013, 7:00 PM

Well, I have compared the 2. We have NIST traceability. Our lab has a Helper Sinadder 101. It's old. It's amazing! Infinite on the left end of the scale. 0 (zero) on the right. Put a 1khz in it and the meter doesn't move. Run the volume up and down - meter doesn't move until you get clipping from the audio amp itself. Change the freq to 995 or 1005 hz - meter moves to 30db.  3 more hz change - 20db. Each 1hz step is clearly visible on the meter. I have zero beat with a 10mhz signal from the NIST interface and WWV at 10 mhz using an HF receiver SSB mode set 1 khz below freq and the meter lays at the peg except for the ticks and then goes crazy during the time announcement.The later Sinadders have wider notches like about anything else. We also have a Sinadder 3. it's a wider notch too. A different Sinad meter standard was set ( I think) in 1982. The calibration check says in the manual to be certain your 1khz tone is within 5hz, 5hz!

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As for SNR and distortion - I have seen only a few cases where there was much difference. The Helper once led me to a 900hz leak through a faulty diode.

I asked the question to see if anyone knew of a setting I had overlooked to change the width of the notch. I did not intend to imply that we were using faulty equipment and set off a panic.

When following the procedure making a test with the Sinad function the results are accurate to 1 db. I tested it last week on 2 different Bendix-King units and they read just as they

did using dedicated stand-alone devices.

I have a procedure I do several times a day that involves zero -beating 2  1khz tones. It takes a few seconds on the Helper.  The 8924 shows it's good when 100 hz off.
But then, it wasn't designed for this test. I was just trying to use the 8924 to eliminate a few pieces of equipment on Test Bench 1 so I could set up a Test Bench 3 with minimum investment. Looks like the Helper Sinadder will stay on Bench 1.

I have played with the 8924 extensively for the last 2 weeks. I have learned about 10% of it!

For it's intended use - the 8924 is perfect. All in one box. Bench 1 has a 1ghz scope, function generator, a 1ghz rf generator, a 2.5ghz freq counter, a distortion analyzer, a 10 ghz spectrum analyzer, a 10 ghz power meter (all HP), a Boonton micro wattmeter, a Boonton millivolt meter, Lampkin Deviation meter. At a cost of nearly $100K. Each has far more versatility than that section of the 8924. Is the finished product going to be any better? No.
I am going to get one for myself!

I have the schematic of the Helper unit if anyone wants to look at the circuit to suggest some changes to notch filter width in the 8924. I'll gladly change a few components.....

Lee
W9DKC

---

Yahoo! Groups Links

# 1444. Re: Sinad Test

Yahoo group: hp8924
Date: 2013-03-13 14:58:24 UTC
From: wb6dgn_tom@att.net
Topic: 1427  Message: 1444

" When I used to do this every day, my ears were as repeatable and "accurate" as the meter. No kidding."

Yes. On the rare occasion when I was required to perform the test (Helper Sinadder) I, too, found that the result was usually a confirmation of my "aural" measurement. Also true with the 20db method.
Tom

--- In hp8924@yahoogroups.com, Joe Leikhim <rhyolite@...> wrote:
>
> I tried to find the bulletin I mentioned. I downloaded a bunch of stuff
> from Agilent when it was still available, now have so much, I could not
> find it.
>
> The bulletin compared the 892X with another Agilent product. If I recall
> it was a larger discrepancy than you noted. It would be interesting to
> see how an analog Helper Industries SINADDER or the standalone Motorola
> automatic SINADDER reads out. Realistically, getting an accurate SINAD
> value is always a challenge. When I used to do this every day, my ears
> were as repeatable and "accurate" as the meter. No kidding.
>
> --
> Joe Leikhim
>
>
> Leikhim and Associates
>
> Communications Consultants
>
> Oviedo, Florida
>
> JLeikhim@...
>
> 407-982-0446
>
> WWW.LEIKHIM.COM
>

# 1445. Re: HP 8924E Attenuator error

Yahoo group: hp8924
Date: 2013-03-13 15:37:51 UTC
From: rfiemiguy
Topic: 1441  Message: 1445

1) What mode of operation are you measuring? CW, SSB, TDMA etc.
2) What mode is the test set in? Spec analyser? Peak, Average?

3) Could you have a bad connector on front panel of the 8924?

4) Have you tried the self test on the 8924E to loop back a known signal?

--- In hp8924@yahoogroups.com, "Silva" <py8elo@...> wrote:
>
> Hi all,
> today I was working on a equipemnt and my HP 8924E was reading the power about 3dBm when suddenly it reads about -28dBm. Then I has checked the power with another service monitor and I was noticed the power is the same as before 3dBm. Back to HP 8924E again and I gaet just -28dBm.
> I think it is some attenuator the culprit.
> Any ideas to solve this issue?
>
> Thanks in advance and Best regards,
>
> Silva.
>
>
> **********
> Brazilian Ham Radio - ARRL Member
> Callsign: PY8ELO
> Name: Silva
> Grid Locator: GI25ar
> Address: POBOX 151 CEP 68180030
> ITAITUBA - PA - BRAZIL
> **********
> AMAZON FOREST, THE WORLD'S LUNG!
> **********
>

# 1446. Re: [hp8924] Re: Sinad Test

Yahoo group: hp8924
Date: 2013-03-15 00:14:48 UTC
From: Ecw2f
Topic: 1427  Message: 1446

Sent from my iPad

On Mar 12, 2013, at 10:55 AM, Joe Leikhim <rhyolite@nettally.com> wrote:

> I tried to find the bulletin I mentioned. I downloaded a bunch of stuff
> from Agilent when it was still available, now have so much, I could not
> find it.
>
> The bulletin compared the 892X with another Agilent product. If I recall
> it was a larger discrepancy than you noted. It would be interesting to
> see how an analog Helper Industries SINADDER or the standalone Motorola
> automatic SINADDER reads out. Realistically, getting an accurate SINAD
> value is always a challenge. When I used to do this every day, my ears
> were as repeatable and "accurate" as the meter. No kidding.
>
> --
> Joe Leikhim
>
> Leikhim and Associates
>
> Communications Consultants
>
> Oviedo, Florida
>
> JLeikhim@...
>
> 407-982-0446
>
> WWW.LEIKHIM.COM
>
>

# 1447. Re: [hp8924] Re: Sinad Test

Yahoo group: hp8924
Date: 2013-03-15 00:16:56 UTC
From: Ecw2f
Topic: 1427  Message: 1447

Sent from my iPad

On Mar 12, 2013, at 10:00 PM, Ralph Mowery <ku4pt@yahoo.com> wrote:

> This message cannot be displayed because of the way it is formatted. Ask the sender to send it again using a different format or email program. text/html

# 1448. Re: Video Capture

Yahoo group: hp8924
Date: 2013-03-15 04:00:17 UTC
From: kc7wsu
Topic: 1401  Message: 1448

I recorded a video today. I think I have a great way to capture video from my service monitor.

Have a watch if you are interested. http://youtu.be/bIRwu4yQmmY

Regards,

Chris Andrist, KC7WSU

--- In hp8924@yahoogroups.com, "kc7wsu" <chris@...> wrote:
>
> So, I think I found a solution.
>
> I just ordered an MVC007 off ebay to output to VGA, because I wanted the VGA output anyways. I also ordered an Epiphan VGA2USB adapter. http://www.amazon.com/Epiphan-Systems-VGA2USB-External-Capture/dp/B000UO94DU/ref=sr_1_1?ie=UTF8&qid=1362684357&sr=8-1&keywords=epiphan
>
> So the MVC007 will give me VGA and the VGA2USB will capture the VGA to my PC.
>
> I will post back once I get both to let everybody know. I really hope this works.
>
> Regards,
>
> Chris Andrist, KC7WSU
>
> --- In hp8924@yahoogroups.com, "kc7wsu" <chris@> wrote:
> >
> > I should have my 8924c from Rick in the next few days.
> >
> > I want to be able to record what is happening on the screen so that I can us it in video demonstrations.
> >
> > I am wondering if anybody knows how to capture the video out from the 8924c. I know there are lots of adapters to convert it to VGA, but I wonder if I can bypass that step and go straight from the 8924c to the computer?
> >
> > Regards,
> >
> > Chris Andrist, KC7WSU
> >
>

# 1449. AM and SSB Tests

Yahoo group: hp8924
Date: 2013-03-15 17:33:35 UTC
From: Garret
Topic: 1449  Message: 1449

I am considering the purchase of an 8924C, but I need it to perform AM and SSB measurements. I cannot seem to find reference to this in the data sheets or manual. Everything I see is for FM and CDMA measurements. Could be I'm looking in the wrong documents.

Would someone please confirm for me that this instrument, in standard configruation (no options) is capable and calibrated for AM and SSB measurements? Is it capable of everything the 8920B is capable of?

Thanks,
Garret

# 1450. RE: [hp8924] AM and SSB Tests

Yahoo group: hp8924
Date: 2013-03-15 17:50:51 UTC
From: Adam Farson
Topic: 1449  Message: 1450

Hi Garret,

According to the HP 8924C Reference Guide, the instrument supports AM and SSB. You can download the Reference Guide on the Agilent website.

The Agilent 8935 E6380A is an alternative at a somewhat higher price.

73, Adam VA7OJ/AB4OJ

-----Original Message-----
From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Garret
Sent: 15-Mar-13 10:34
To: hp8924@yahoogroups.com
Subject: [hp8924] AM and SSB Tests

I am considering the purchase of an 8924C, but I need it to perform AM and SSB measurements. I cannot seem to find reference to this in the data sheets or manual. Everything I see is for FM and CDMA measurements. Could be I'm looking in the wrong documents.

Would someone please confirm for me that this instrument, in standard configruation (no options) is capable and calibrated for AM and SSB measurements? Is it capable of everything the 8920B is capable of?

Thanks,
Garret

# 1451. Re: Video Capture

Yahoo group: hp8924
Date: 2013-03-15 19:30:24 UTC
From: nolimit3o3
Topic: 1401  Message: 1451

Nice Chris, glad it worked for you :)

--- In hp8924@yahoogroups.com, "kc7wsu" <chris@...> wrote:
>
>
> I recorded a video today. I think I have a great way to capture video from my service monitor.
>
> Have a watch if you are interested. http://youtu.be/bIRwu4yQmmY
>
> Regards,
>
> Chris Andrist, KC7WSU
>
> --- In hp8924@yahoogroups.com, "kc7wsu" <chris@> wrote:
> >
> > So, I think I found a solution.
> >
> > I just ordered an MVC007 off ebay to output to VGA, because I wanted the VGA output anyways. I also ordered an Epiphan VGA2USB adapter. http://www.amazon.com/Epiphan-Systems-VGA2USB-External-Capture/dp/B000UO94DU/ref=sr_1_1?ie=UTF8&qid=1362684357&sr=8-1&keywords=epiphan
> >
> > So the MVC007 will give me VGA and the VGA2USB will capture the VGA to my PC.
> >
> > I will post back once I get both to let everybody know. I really hope this works.
> >
> > Regards,
> >
> > Chris Andrist, KC7WSU
> >
> > --- In hp8924@yahoogroups.com, "kc7wsu" <chris@> wrote:
> > >
> > > I should have my 8924c from Rick in the next few days.
> > >
> > > I want to be able to record what is happening on the screen so that I can us it in video demonstrations.
> > >
> > > I am wondering if anybody knows how to capture the video out from the 8924c. I know there are lots of adapters to convert it to VGA, but I wonder if I can bypass that step and go straight from the 8924c to the computer?
> > >
> > > Regards,
> > >
> > > Chris Andrist, KC7WSU

> > >
> >
>

# 1452. Re: AM and SSB Tests

Yahoo group: hp8924
Date: 2013-03-15 20:09:22 UTC
From: Garret
Topic: 1449  Message: 1452

Thanks Robert, Adam and David. That's what I needed to know.

Now another question: I understand the standard version will work below 30MHz, but it's not calibrated, and that readings error is significant below 10MHz. In practical use, how much does that impact testing when working with HF radios in the 1-30MHz band?

Thanks,
Garret
W8BUG

--- In hp8924@yahoogroups.com, "Adam Farson" <farson@...> wrote:
>
> Hi Garret,
>
> According to the HP 8924C Reference Guide, the instrument supports AM and
> SSB. You can download the Reference Guide on the Agilent website.
>
> The Agilent 8935 E6380A is an alternative at a somewhat higher price.
>
>
> 73, Adam VA7OJ/AB4OJ
>
>
>
> -----Original Message-----
> From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of
> Garret
> Sent: 15-Mar-13 10:34
> To: hp8924@yahoogroups.com
> Subject: [hp8924] AM and SSB Tests
>
> I am considering the purchase of an 8924C, but I need it to perform AM and
> SSB measurements. I cannot seem to find reference to this in the data
> sheets or manual. Everything I see is for FM and CDMA measurements. Could be
> I'm looking in the wrong documents.
>
> Would someone please confirm for me that this instrument, in standard
> configruation (no options) is capable and calibrated for AM and SSB
> measurements? Is it capable of everything the 8920B is capable of?
>
> Thanks,
> Garret
>

# 1453. Re: [hp8924] Re: AM and SSB Tests

Yahoo group: hp8924
Date: 2013-03-15 20:51:50 UTC
From: Ralph Mowery
Topic: 1449  Message: 1453

The 8924c has all the functions that you need to check out analog systems.  Probably most everything is standard that is options in the 8920b sets.  Becareful and do not get the E version as it leaves out alot.

It will work fine for checking out AM and SSB sets.  Just look in the 8920b manuals for the setups and tests.  Some buttons are differant,but it is mostly the same.  I do think that it generates and demodulates ssb as actually a dsb signal.  I do not recall anything for usb and lsb eventhough it shows up as ssb.

Below about 10 mhz the calibration for the power is off.  That is the signal generator and also the wattmeter.  Depending on he version of the 8924c,  you  may be able to only put in 3 watts, 60 watts , or 100 watts.  They will over range for short periods of time.  I am thinking either 5 or 10 watts for the 3 watt version, 100 watts for the 60 watt version for about 10 seconds.  There is a warning if things heat up too much.

You can go here and see some of the screen shots of the 8924c.

http://www.amtronix.com/hp8924c60.htm

At the bottom is some links for more information and a chart of how a typical unit falls off in power caliberation.

Unless you need to know the absolute sensitivity or power output of a rig below 10 mhz or so it will not make that much differance in servicing rigs.  You can go by the chart on the Amtronix site and get close enough.  You can also get another signal generator and watt meter and make your own calibration charts.

All other functions such as frequency, modulation percentage/deviation and others will still be accurate.

While a 3db transmitter power differance will be noticable on a wattmeter, I doubt that a 3db differance on receive below 10 mhz will be noticable on any good receiver due to the ambinant noise from the antenna.

As this set is a do all unit be prepaired to spend several weeks or more learning what all it will do.  It is easy to use once you know how it works.
Also if you are running the same tests over and over, you can store the setups in the memory and just hit a button or two to recall the test you want to do.

--- On Fri, 3/15/13, Garret <scottgs@...> wrote:

From: Garret <scottgs@...>
Subject: [hp8924] Re: AM and SSB Tests
To: hp8924@yahoogroups.com
Date: Friday, March 15, 2013, 4:09 PM

Thanks Robert, Adam and David.  That's what I needed to know.

Now another question:  I understand the standard version will work below 30MHz, but it's not calibrated, and that readings error is significant below 10MHz.  In practical use, how much does that impact testing when working with HF radios in the 1-30MHz band?

Thanks,
Garret
W8BUG

# 1454. Re: Video Capture

Yahoo group: hp8924
Date: 2013-03-15 22:09:26 UTC
From: kb9jzy
Topic: 1401 Message: 1454

Looks great!

Terry, K9HA

--- In hp8924@yahoogroups.com, "nolimit3o3" <danderson255@...> wrote:
>
> Nice Chris, glad it worked for you :)
>
> --- In hp8924@yahoogroups.com, "kc7wsu" <chris@> wrote:
> >
> >
> > I recorded a video today. I think I have a great way to capture video from my service monitor.
> >
> > Have a watch if you are interested. http://youtu.be/bIRwu4yQmmY
> >
> > Regards,
> >
> > Chris Andrist, KC7WSU
> >
> > --- In hp8924@yahoogroups.com, "kc7wsu" <chris@> wrote:
> > >
> > > So, I think I found a solution.
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> > > I just ordered an MVC007 off ebay to output to VGA, because I wanted the VGA output anyways. I also ordered an Epiphan VGA2USB adapter. http://www.amazon.com/Epiphan-Systems-VGA2USB-External-Capture/dp/B000UO94DU/ref=sr_1_1?ie=UTF8&qid=1362684357&sr=8-1&keywords=epiphan
> > >
> > > So the MVC007 will give me VGA and the VGA2USB will capture the VGA to my PC.
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> > > I will post back once I get both to let everybody know. I really hope this works.
> > >
> > > Regards,
> > >
> > > Chris Andrist, KC7WSU
> > >
> > > --- In hp8924@yahoogroups.com, "kc7wsu" <chris@> wrote:
> > > >
> > > > I should have my 8924c from Rick in the next few days.
> > > >
> > > > I want to be able to record what is happening on the screen so that I can us it in video demonstrations.
> > > >
> > > > I am wondering if anybody knows how to capture the video out from the 8924c. I know

there are lots of adapters to convert it to VGA, but I wonder if I can bypass that step and go straight from the 8924c to the computer?
> > > >
> > > > Regards,
> > > >
> > > > Chris Andrist, KC7WSU
> > > >
> > >
> >
>

# 1455. 8922M opt 010 without 83220E.

Yahoo group: hp8924
Date: 2013-03-19 23:22:27 UTC
From: msauve2
Topic: 1455  Message: 1455

Just putting this out there for future reference.

Picked up one of these for cheap ($150, shipped), with spectrum analyzer and 10811 OCXO. The warning (83220 not connected) is easily bypassed, but the label and warning about using the RF In/Out connector was scary.

I took off the front panel to fix some keys which weren't working well, and took the chance to look around. Mine apparently had the 010 option installed post-factory.

On the 8922M (no opt 010), the RF I/O connector is a BNC, and runs to the A24 8 dB attenuator, then to the A23 Input Section. These connections are all SMA hardlines (RG-405, probably). What they did when converting it to opt 010 was to simply cut the hardlines to/from the attenuator (it's still there), and run new from a front panel SMA straight into the Input Section (and install new firmware).

The docs say the 83220 provides 7 dB attenuation as it passes signals into the (previously) RF I/O input. That's close to the 8 dB attenuator, so the new firmware or calibration makes up for the difference. Running the same signal into both the RF I/O input and the Aux RF In showed that the 8922 thought it was ~7 dB higher when measured on the RF I/O input.

Anyway, with the attenuator, the non-010 M would handle up to 41 dBm (12.5 W/50 ohm) into that jack. The docs say 15 W continuous, 100 W for 10 seconds. That 8 db attenuator is pretty hefty, with heat sink fins on it. With the 010, you need the 83220 to provide an input with that high a level, otherwise you're limited to about 2 W (hence the warnings about blowing it up if you connect a phone directly to that input).

It appear the only thing needed to get that higher level input working is a bit of rewiring to put the attenuator back into the path. I'm not sure what's required to do a calibration, but worst case there's an Input Offset Level in the Configure screen which can be used to recalibrate that input.

So, my future project is to get a 400 mm bulkhead BNC to SMA cable, a 200 mm SMA to right angle SMA cable, and make that port useful again.

Also, from somewhere I found that saving a config as "POWERON" causes that to come up automatically on, yes, power on (annoyingly, the screen is messed up by the warning message). I also found that a "PRESET" config will come up when you press, yes, the Preset key.

# 1456. RE: [hp8924] 8922M opt 010 without 83220E.

Yahoo group: hp8924
Date: 2013-03-20 02:47:42 UTC
From: Bob Matreci
Topic: 1455  Message: 1456

Hi Mike, do you know where I can pick up a spec an card for an 8920A and any firmware to make it work? Bob
To: hp8924@yahoogroups.com
From: mikes@flatsurface.com
Date: Tue, 19 Mar 2013 23:22:27 +0000
Subject: [hp8924] 8922M opt 010 without 83220E.

Just putting this out there for future reference.

Picked up one of these for cheap ($150, shipped), with spectrum analyzer and 10811 OCXO. The warning (83220 not connected) is easily bypassed, but the label and warning about using the RF In/Out connector was scary.

I took off the front panel to fix some keys which weren't working well, and took the chance to look around. Mine apparently had the 010 option installed post-factory.

On the 8922M (no opt 010), the RF I/O connector is a BNC, and runs to the A24 8 dB attenuator, then to the A23 Input Section. These connections are all SMA hardlines (RG-405, probably). What they did when converting it to opt 010 was to simply cut the hardlines to/from the attenuator (it's still there), and run new from a front panel SMA straight into the Input Section (and install new firmware).

The docs say the 83220 provides 7 dB attenuation as it passes signals into the (previously) RF I/O input. That's close to the 8 dB attenuator, so the new firmware or calibration makes up for the difference. Running the same signal into both the RF I/O input and the Aux RF In showed that the 8922 thought it was ~7 dB higher when measured on the RF I/O input.

Anyway, with the attenuator, the non-010 M would handle up to 41 dBm (12.5 W/50 ohm) into that jack. The docs say 15 W continuous, 100 W for 10 seconds. That 8 db attenuator is pretty hefty, with heat sink fins on it. With the 010, you need the 83220 to provide an input with that high a level, otherwise you're limited to about 2 W (hence the warnings about blowing it up if you connect a phone directly to that input).

It appear the only thing needed to get that higher level input working is a bit of rewiring to put the attenuator back into the path. I'm not sure what's required to do a calibration, but worst case there's an Input Offset Level in the Configure screen which can be used to recalibrate that input.

So, my future project is to get a 400 mm bulkhead BNC to SMA cable, a 200 mm SMA to right angle SMA cable, and make that port useful again.

Also, from somewhere I found that saving a config as "POWERON" causes that to come up automatically on, yes, power on (annoyingly, the screen is messed up by the warning message). I also found that a "PRESET" config will come up when you press, yes, the Preset key.

# 1457. Which PCMCIA card will work with the 8924C ?

Yahoo group: hp8924
Date: 2013-03-21 01:28:38 UTC
From: Garret
Topic: 1457  Message: 1457

I would like to procure a few cards to use for loading software, such as the RF Tools and some of my own. But I understand there are only certain cards which are compatible with the 8934C. Could someone give me some quick advice on which cards to look for? Is it a Type-I, II? or particular voltage or memory size that works best?

Thanks,
Garret
W8BUG

# 1458. Re: [hp8924] Which PCMCIA card will work with the 8924C ?

Yahoo group: hp8924
Date: 2013-03-21 07:44:17 UTC
From: Robert Atkinson
Topic: 1457  Message: 1458

Hi Garret,
Type I or II does not matter, but you need a card which supports linear addressing, not the ATA (IDE Hrd disk emulation) interface used by later Flash cards and CF or SD to PCMCIA adaptors. This means a battery backed up static RAM card or a linear Flash card. As the 8924C won't format or write to a Flash card you need a PC (laptop) with a PCMCIA slot and software such as ELAN's Memory Card Explorer (MCE) to program the card. Try to avoid Linear Flash cards that need 12V to program as many PCMCIA card slots don't support them for writing. You cannot use Flash for storing instrument set-ups etc, it must be static Ram for this but it can be smaller. You can load a program from flash then pull the card and put a RAM card in to store variables. The 8924C will keep the program in NVRAM even when switched off. I sell a programmed (11807E opt 100) flash card for $50 to list members.

Robert G8RPI.

---
From: Garret <scottgs@...>
To: hp8924@yahoogroups.com
Sent: Thursday, 21 March 2013, 1:28
Subject: [hp8924] Which PCMCIA card will work with the 8924C ?

I would like to procure a few cards to use for loading software, such as the RF Tools and some of my own. But I understand there are only certain cards which are compatible with the 8934C. Could someone give me some quick advice on which cards to look for? Is it a Type-I, II? or particular voltage or memory size that works best?

Thanks,
Garret
W8BUG

# 1459. Re: Which PCMCIA card will work with the 8924C ?

Yahoo group: hp8924
Date: 2013-03-21 14:03:18 UTC
From: kernkampj
Topic: 1457  Message: 1459

Robert -

I would like to get one of your cards. Please let me know how to pay you.

Also - I have a battery-backed SRAM card that I would sell for $50, if anyone wants one.

John K.
==========

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Hi Garret,
> Type I or II does not matter, but you need a card which supports linear addressing, not the ATA (IDE Hrd disk emulation)Â interface used by later Flash cards and CF or SDÂ to PCMCIA adaptors. This means a battery backed up static RAM card or a linear Flash card. As the 8924C won't format or write to a Flash card you need a PC (laptop) with a PCMCIA slot and software such as ELAN's Memory Card Explorer (MCE) to program the card.Â Try to avoid Linear Flash cards that need 12V to program as many PCMCIA card slots don't support them for writing. You cannot use Flash for storing instrumentÂ set-ups etc, it must be static Ram for this but it can be smaller. You can load a program from flash then pull the card and put a RAM card in to store variables. The 8924C will keep the program in NVRAM even when switched off.Â I sell a programmed (11807E opt 100) flash card for $50 to list members.
> Â
> Robert G8RPI.
>
>
> _____
> From: Garret <scottgs@...>
> To: hp8924@yahoogroups.com
> Sent: Thursday, 21 March 2013, 1:28
> Subject: [hp8924] Which PCMCIA card will work with the 8924C ?
>
> Â
> I would like to procure a few cards to use for loading software, such as the RF Tools and some of my own. But I understand there are only certain cards which are compatible with the 8934C. Could someone give me some quick advice on which cards to look for? Is it a Type-I, II? or particular voltage or memory size that works best?
>
> Thanks,
> Garret
> W8BUG
>

# 1460. 82357B GPIB USB Interface

Yahoo group: hp8924
Date: 2013-03-22 11:44:54 UTC
From: kernkampj
Topic: 1460  Message: 1460

Has anyone used one of the HP/Agilent 82357B GPIB-USB Interface units to control or to read the display of an 8924C?

If so, what software did you use? Any issues? Is it a good setup?

Any guidance or advice would be appreciated.

# 1461. Boot Up Mode

Yahoo group: hp8924
Date: 2013-03-26 03:22:54 UTC
From: hr2pac
Topic: 1461  Message: 1461

I finally got my HP8924C, thank you Rick@Amtronix for packaging it well and for all of you attention and expertise, I started playing with it and I noticed that when you turn it on it immediately goes into the CDMA boot up mode, I configured it as per instructions http://www.amtronix.com/poweron.htm for the POWRON boot up sequence, I save everything but when I turn it back on it boots up in CDMA again, I find myself having to use the recall button to go back to POWRON, any advise or thoughts? thank you all.

# 1462. Re: Boot Up Mode

Yahoo group: hp8924
Date: 2013-03-26 03:55:30 UTC
From: Mark Young
Topic: 1461  Message: 1462

Try POWERON with an E, not POWRON, I believe it is a typo at Amtronix.
I have been told before that it didn't matter, but it did for me.

Let me know if it made a difference for you.

Good Luck

Mark

--- In hp8924@yahoogroups.com, "hr2pac" <hr2pac@...> wrote:
>
> I finally got my HP8924C, thank you Rick@Amtronix for packaging it well and for all of you attention and expertise, I started playing with it and I noticed that when you turn it on it immediately goes into the CDMA boot up mode, I configured it as per instructions http://www.amtronix.com/poweron.htm for the POWRON boot up sequence, I save everything but when I turn it back on it boots up in CDMA again, I find myself having to use the recall button to go back to POWRON, any advise or thoughts? thank you all.
>

# 1463. Re: [hp8924] Re: Boot Up Mode

Yahoo group: hp8924
Date: 2013-03-26 05:29:37 UTC
From: ADAM FARSON
Topic: 1461  Message: 1463

Hi Mark,

I can confirm that POWERON is correct. It works on my 8935.

73, Adam VA7OJ/AB4OJ

----- Original Message -----
From: "Mark Young" <myoungmd@...>
To: hp8924@yahoogroups.com
Sent: Tuesday, March 26, 2013 5:55:30 AM
Subject: [hp8924] Re: Boot Up Mode

Try POWERON with an E, not POWRON, I believe it is a typo at Amtronix.
I have been told before that it didn't matter, but it did for me.

Let me know if it made a difference for you.

Good Luck

Mark

--- In hp8924@yahoogroups.com, "hr2pac" <hr2pac@...> wrote:
>
> I finally got my HP8924C, thank you Rick@Amtronix for packaging it well and for all of you attention and expertise, I started playing with it and I noticed that when you turn it on it immediately goes into the CDMA boot up mode, I configured it as per instructions http://www.amtronix.com/poweron.htm for the POWRON boot up sequence, I save everything but when I turn it back on it boots up in CDMA again, I find myself having to use the recall button to go back to POWRON, any advise or thoughts? thank you all.
>

---

Yahoo! Groups Links

# 1464. Re: Boot Up Mode

Yahoo group: hp8924
Date: 2013-03-26 14:10:30 UTC
From: Silva
Topic: 1461  Message: 1464

Hi Rick and all,
it is a nice tip but my 8924E menu is a bit different.
How can I change it boot up mode?

Thanks in advance and Best Regards,

Silva.

**********
Brazilian Ham Radio - ARRL Member
Callsign: PY8ELO
Name: Silva
Grid Locator: GI25ar
Address: POBOX 151 CEP 68180030
ITAITUBA - PA - BRAZIL
**********
"The quieter You become the more You are able to hear"

--- In hp8924@yahoogroups.com, ADAM FARSON <farson@...> wrote:
>
> Hi Mark,
>
> I can confirm that POWERON is correct. It works on my 8935.
>
> 73, Adam VA7OJ/AB4OJ
>
> ----- Original Message -----
> From: "Mark Young" <myoungmd@...>
> To: hp8924@yahoogroups.com
> Sent: Tuesday, March 26, 2013 5:55:30 AM
> Subject: [hp8924] Re: Boot Up Mode
>
> Try POWERON with an E, not POWRON, I believe it is a typo at Amtronix.
> I have been told before that it didn't matter, but it did for me.
>
> Let me know if it made a difference for you.
>
> Good Luck
>
> Mark
>
> --- In hp8924@yahoogroups.com, "hr2pac" <hr2pac@> wrote:
> >
> > I finally got my HP8924C, thank you Rick@Amtronix for packaging it well and for all of you attention and expertise, I started playing with it and I noticed that when you turn it on it immediately goes into the CDMA boot up mode, I configured it as per instructions

http://www.amtronix.com/poweron.htm for the POWRON boot up sequence, I save everything but when I turn it back on it boots up in CDMA again, I find myself having to use the recall button to go back to POWRON, any advise or thoughts? thank you all.
> >
>
>
>
> ----------
>
> Yahoo! Groups Links
>

# 1465. Re: Boot Up Mode

Yahoo group: hp8924
Date: 2013-03-26 14:13:43 UTC
From: kernkampj
Topic: 1461  Message: 1465

There is a back-up battery on the circuit board that supports the plug-in memory card. This battery keeps the stored POWERON setup memory alive. Its nominal voltage is three volts - if it is less than 2.8 it should be replaced. You have to take the board out to check the battery, but it's not difficult to do.
==========

--- In hp8924@yahoogroups.com, "hr2pac" <hr2pac@...> wrote:
>
> I finally got my HP8924C, thank you Rick@Amtronix for packaging it well and for all of you attention and expertise, I started playing with it and I noticed that when you turn it on it immediately goes into the CDMA boot up mode, I configured it as per instructions http://www.amtronix.com/poweron.htm for the POWRON boot up sequence, I save everything but when I turn it back on it boots up in CDMA again, I find myself having to use the recall button to go back to POWRON, any advise or thoughts? thank you all.
>

# 1466. Re: Boot Up Mode

Yahoo group: hp8924
Date: 2013-03-26 15:09:58 UTC
From: hr2pac
Topic: 1461  Message: 1466

Mark,

It worked exactly as predicted, you gave me the solution buddy, thank you and now to enjoy my "new" HP8924C thank you all who responded and take care.

Pete..

--- In hp8924@yahoogroups.com, "Mark Young" <myoungmd@...> wrote:
>
> Try POWERON with an E, not POWRON, I believe it is a typo at Amtronix.
> I have been told before that it didn't matter, but it did for me.
>
> Let me know if it made a difference for you.
>
> Good Luck
>
> Mark
>
> --- In hp8924@yahoogroups.com, "hr2pac" <hr2pac@> wrote:
> >
> > I finally got my HP8924C, thank you Rick@Amtronix for packaging it well and for all of you attention and expertise, I started playing with it and I noticed that when you turn it on it immediately goes into the CDMA boot up mode, I configured it as per instructions http://www.amtronix.com/poweron.htm for the POWRON boot up sequence, I save everything but when I turn it back on it boots up in CDMA again, I find myself having to use the recall button to go back to POWRON, any advise or thoughts? thank you all.
> >
>

# 1467. Re: [hp8924] Re: Boot Up Mode

Yahoo group: hp8924
Date: 2013-03-26 15:29:56 UTC
From: Ralph Mowery
Topic: 1461  Message: 1467

Glad you got it working.  There is that mistake in the web page.  As you found out, you have to make sure you spell it POWERON.

When you do this, it not only saves the screen that is showing, but you can also configuer the other screens the way you want them to show up and when you goto them, they will also come up as you left them, when you go to them,  when you saved the power on configuration. Good way for the transmitt and receiver test screens to be preset for tests you most often use.  You can also save other setups that you often use, say you frequently tune a duplexer to the same frequency.  Save that the same way and give it a name of anything but POWERON or BASE.  Then you can recall that and save some time.  Not sure what the limit is, but you can save a lot before the memory runs out.

--- On Tue, 3/26/13, hr2pac <hr2pac@...> wrote:

From: hr2pac <hr2pac@...>
Subject: [hp8924] Re: Boot Up Mode
To: hp8924@yahoogroups.com
Date: Tuesday, March 26, 2013, 11:09 AM

Mark,

It worked exactly as predicted, you gave me the solution buddy, thank you and now to enjoy my "new" HP8924C thank you all who responded and take care.

Pete..

--- In hp8924@yahoogroups.com, "Mark Young" <myoungmd@...> wrote:
>
> Try POWERON with an E, not POWRON, I believe it is a typo at Amtronix.
> I have been told before that it didn't matter, but it did for me.
>
> Let me know if it made a difference for you.
>
> Good Luck
>
> Mark

# 1468. Re: Boot Up Mode

Yahoo group: hp8924
Date: 2013-03-27 12:49:45 UTC
From: kernkampj
Topic: 1461  Message: 1468

It IS a typo - I'm surprised they haven't fixed it.

Actually, they show it properly as POWERON in other places in the write-up, but in the one place where it matters, they leave out the "E".

The 8924C will save the setup if you call it POWRON (you can save setups under any name you choose), but when the machine is first turned on, it only looks for the correctly-entered "POWERON" setup.

So, if you mistakenly save it as POWRON, it's there, but you have to recall it manually.
==========

--- In hp8924@yahoogroups.com, "Mark Young" <myoungmd@...> wrote:
>
> Try POWERON with an E, not POWRON, I believe it is a typo at Amtronix.
> I have been told before that it didn't matter, but it did for me.
>
> Let me know if it made a difference for you.
>
> Good Luck
>
> Mark

# 1469. Re: [hp8924] Re: Boot Up Mode

Yahoo group: hp8924
Date: 2013-03-27 17:02:04 UTC
From: Pedro Castillo
Topic: 1461  Message: 1469

Thanks for the advice. So how do you delete the mistaken POWRON you have saved in he sustem? Thanks again.

Pete.

Enviado desde mi iPad

El 27/03/2013, a las 06:49 a.m., "kernkampj" <kernkampj@...> escribió:

> It IS a typo - I'm surprised they haven't fixed it.
>
> Actually, they show it properly as POWERON in other places in the write-up, but in the one place where it matters, they leave out the "E".
>
> The 8924C will save the setup if you call it POWRON (you can save setups under any name you choose), but when the machine is first turned on, it only looks for the correctly-entered "POWERON" setup.
>
> So, if you mistakenly save it as POWRON, it's there, but you have to recall it manually.
> ==========
>
> --- In hp8924@yahoogroups.com, "Mark Young" <myoungmd@...> wrote:
> >
> > Try POWERON with an E, not POWRON, I believe it is a typo at Amtronix.
> > I have been told before that it didn't matter, but it did for me.
> >
> > Let me know if it made a difference for you.
> >
> > Good Luck
> >
> > Mark
>
>

# 1470. Re: [hp8924] Re: Boot Up Mode

Yahoo group: hp8924
Date: 2013-03-27 17:57:19 UTC
From: Ralph Mowery
Topic: 1461  Message: 1470

In the upper right push the RECALL button.  Select the one you want to delete.  It will be the name in the upper left of the screen.  Notice what it says after it.  OFF clears.  Push the OFF button on the 8924c.  It is the one under the 0 on the key pad labled ON/Off.  The screen will give you one more chance not to do it.  If you are sure, press the ON/OFF button one more time.

It will not hirt to leave it in.  The 8924c never looks at it unless you press the TEST button.

As I mentioned you can set the 8924c to do other tests and you can save them using differant names.  Then just push the RECALL button and select the test you want to run.  YOu can use almost any name you want except POWERON and BASIC.  When you want to run the test, just hit the RECALL and select the test you want to run.  If at anytime you want to get to the poweron state, you can do the same thing, RECALL the POWERON.

It is going to take a lot of button pushing and seeing what hapens to understand this unit.  Being retired and just use it for my hobby, I spent about  a month or two playing with it about an hour every day or two.  The books are not all that helpful, but if you download all the stuff on the 8920 units and look at them it will be a big help.

--- On Wed, 3/27/13, Pedro Castillo <hr2pac@...> wrote:

From: Pedro Castillo <hr2pac@...>
Subject: Re: [hp8924] Re: Boot Up Mode
To: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
Cc: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
Date: Wednesday, March 27, 2013, 1:02 PM

Thanks for the advice. So how do you delete the mistaken POWRON you have saved in he sustem? Thanks again.

Pete.

# 1471. 8924C RF IN/OUT Problem. 10dB down. Any ideas?

Yahoo group: hp8924
Date: 2013-03-31 17:41:41 UTC
From: Garret
Topic: 1471  Message: 1471

I just received my new (to me) HP 8924C. It seems to work ok, except that when I perform a test through the "RF IN/OUT" port, everything reads about 10dB down.

For example, if I connect a 10 watt transmitter to the RF IN/OUT port, it reads only 1 watt. When I generate with "RX Test" mode, it generates about 10db less than what is displayed. If I switch to the "Duplex" port, it generates what is displayed correctly.

I haven't tested everything, but it seems to work ok with everything else I've tested. Receive sensitivity appears good through the "Antenna" port.

This unit has the 100 watt option and the 400KHz - 1000MHz option.

Any help would be greatly appreciated. Hopfully, I just forgot to push a button somewhere.

Thanks,
Garret
W8BUG

# 1472. RE: [hp8924] 8924C RF IN/OUT Problem. 10dB down. Any ideas?

Yahoo group: hp8924
Date: 2013-03-31 19:40:27 UTC
From: mwbesemer@...
Topic: 1471  Message: 1472
Attachments: 2 described; binary payloads are missing from this source WARC

[ Attachment content not displayed ]

# 1473. Re: [hp8924] 8924C RF IN/OUT Problem. 10dB down. Any ideas?

Yahoo group: hp8924
Date: 2013-03-31 19:55:46 UTC
From: Jim Kossow
Topic: 1471  Message: 1473

My just would be they used it with a 10db pad for testing exciters

Jim

Sent from my phone. Short and simple.

On Mar 31, 2013, at 12:40, mwbesemer@... wrote:

> Garret,
>
> Check to see if someone has programmed an offset into the instrument; don't have mine in front of me at the moment, but you'll know the menu when you find it.
>
> Aside from that, I'd guess problems with the input assembly; someone may have not heeded the warning about not applying RF with the instrument off, or possibly greatly exceeded the 100 watt input.
>
> 73,
>
> Mike
> WM4B
>
>
> On Sun, Mar 31, 2013 at 1:41 PM, Garret wrote:
>
> I just received my new (to me) HP 8924C. It seems to work ok, except that when I perform a test through the "RF IN/OUT" port, everything reads about 10dB down.
>
> For example, if I connect a 10 watt transmitter to the RF IN/OUT port, it reads only 1 watt. When I generate with "RX Test" mode, it generates about 10db less than what is displayed. If I switch to the "Duplex" port, it generates what is displayed correctly.
>
> I haven't tested everything, but it seems to work ok with everything else I've tested. Receive sensitivity appears good through the "Antenna" port.
>
> This unit has the 100 watt option and the 400KHz - 1000MHz option.
>
> Any help would be greatly appreciated. Hopfully, I just forgot to push a button somewhere.
>
> Thanks,
> Garret
> W8BUG
>
>
>

# 1474. Re: [hp8924] 8924C RF IN/OUT Problem. 10dB down. Any ideas?

Yahoo group: hp8924
Date: 2013-03-31 20:22:49 UTC
From: Garret Scott
Topic: 1471  Message: 1474

Mike,

All of the offsets in the configuration menus were set to "0".  However, I have discovered that if I enter -12dB for the RF IN/OUT port, it pretty much makes both the generate and receive read exactly correct. Interesting that this is somewhere close to the loss due to the power attenuator in the 100 Watt option, as compated to the standard 3 watt input.  I can't help but wonder if everything is ok physically, but there is a calibration value that is set wrong somewhere?

With the RF IN/OUT offset set this way, it works ok, but I lose the offset amount from the maximum generator output, when using the RF IN/OUT port.  For example, I can generate +18dBm from the Duplex port, but only +6dBm from the RF IN/OUT port.

Is there a place to set calibration values other than the "Offset" values in the Config screen?

Thanks for the help.

Garret
W8BUG

---
From: "mwbesemer@..." <mwbesemer@...>
To: hp8924@yahoogroups.com
Sent: Sun, March 31, 2013 3:40:29 PM
Subject: RE: [hp8924] 8924C RF IN/OUT Problem. 10dB down. Any ideas?

Garret,

Check to see if someone has programmed an offset into the instrument; don't have mine in front of me at the moment, but you'll know the menu when you find it.

Aside from that, I'd guess problems with the input assembly; someone may have not heeded the warning about not applying RF with the instrument off, or possibly greatly exceeded the 100 watt input.

73,

Mike
WM4B

On Sun, Mar 31, 2013 at 1:41 PM, Garret wrote:

I just received my new (to me) HP 8924C.  It seems to work ok, except that when I perform a test through the "RF IN/OUT" port, everything reads about 10dB down.

For example, if I connect a 10 watt transmitter to the RF IN/OUT port, it reads only 1 watt. When I generate with "RX Test" mode, it generates about 10db less than what is displayed.  If I switch to the "Duplex" port, it generates what is displayed correctly.

I haven't tested everything, but it seems to work ok with everything else I've tested. Receive sensitivity appears good through the "Antenna" port.

This unit has the 100 watt option and the 400KHz - 1000MHz option.

Any help would be greatly appreciated.  Hopfully, I just forgot to push a button somewhere.

Thanks,
Garret
W8BUG

# 1475. RE: [hp8924] 8924C RF IN/OUT Problem. 10dB down. Any ideas?

Yahoo group: hp8924
Date: 2013-03-31 20:26:47 UTC
From: Mike (WM4B)
Topic: 1471  Message: 1475

Have you tried running the built-in calibration routines?

I hate to say it, but I suspect an issue with the input assembly. Don’t ask how I know…

73,

Mike
WM4B

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Garret Scott
Sent: Sunday, March 31, 2013 4:23 PM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] 8924C RF IN/OUT Problem. 10dB down. Any ideas?

Mike,

All of the offsets in the configuration menus were set to "0". However, I have discovered that if I enter -12dB for the RF IN/OUT port, it pretty much makes both the generate and receive read exactly correct. Interesting that this is somewhere close to the loss due to the power attenuator in the 100 Watt option, as compated to the standard 3 watt input. I can't help but wonder if everything is ok physically, but there is a calibration value that is set wrong somewhere?

With the RF IN/OUT offset set this way, it works ok, but I lose the offset amount from the maximum generator output, when using the RF IN/OUT port. For example, I can generate +18dBm from the Duplex port, but only +6dBm from the RF IN/OUT port.

Is there a place to set calibration values other than the "Offset" values in the Config screen?

Thanks for the help.

Garret
W8BUG

---
From: "mwbesemer@cox.net" <mwbesemer@...>
To: hp8924@yahoogroups.com
Sent: Sun, March 31, 2013 3:40:29 PM
Subject: RE: [hp8924] 8924C RF IN/OUT Problem. 10dB down. Any ideas?

Garret,

Check to see if someone has programmed an offset into the instrument; don't have mine in front of me at the moment, but you'll know the menu when you find it.

Aside from that, I'd guess problems with the input assembly; someone may have not heeded the warning about not applying RF with the instrument off, or possibly greatly exceeded the

100 watt input.

73,

Mike
WM4B

On Sun, Mar 31, 2013 at 1:41 PM, Garret wrote:

I just received my new (to me) HP 8924C. It seems to work ok, except that when I perform a test through the "RF IN/OUT" port, everything reads about 10dB down.

For example, if I connect a 10 watt transmitter to the RF IN/OUT port, it reads only 1 watt. When I generate with "RX Test" mode, it generates about 10db less than what is displayed. If I switch to the "Duplex" port, it generates what is displayed correctly.

I haven't tested everything, but it seems to work ok with everything else I've tested. Receive sensitivity appears good through the "Antenna" port.

This unit has the 100 watt option and the 400KHz - 1000MHz option.

Any help would be greatly appreciated. Hopfully, I just forgot to push a button somewhere.

Thanks,
Garret
W8BUG

# 1476. Re: [hp8924] 8924C RF IN/OUT Problem. 10dB down. Any ideas?

Yahoo group: hp8924
Date: 2013-03-31 20:44:04 UTC
From: Garret Scott
Topic: 1471  Message: 1476

No, I have not tried the built-in calibration routines.  Not even sure how to run them.  Need to go read the manual...

After looking at the block diagram, I get the impression that the power attenuator is in the RF IN/OUT circuit no matter what, and that there will always be a loss due to it.  If so, then I suppose there must be a calibration value to compensate somewhere?

For what it's worth, I have verified that the input does still appear to represent a 50 ohm load ok, and that the problem with the RF IN/OUT port seems to be the same across the frequency range.  So I don't think it's a burned up load anyway.

If it is the input assembly, any idea what that would entail to repair? Keeping in mind this analyzer has the 400KHz option, with relays and such.  I paid a lot for this, and it came with a guarantee, so I think the seller will make it right.  I just need to know what is right!

Thanks,
Garret
W8BUG

---
From: Mike (WM4B) <mwbesemer@...>
To: hp8924@yahoogroups.com
Sent: Sun, March 31, 2013 4:26:50 PM
Subject: RE: [hp8924] 8924C RF IN/OUT Problem. 10dB down. Any ideas?

Have you tried running the built-in calibration routines?

I hate to say it, but I suspect an issue with the input assembly. Don’t ask how I know…

73,

Mike
WM4B

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Garret Scott
Sent: Sunday, March 31, 2013 4:23 PM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] 8924C RF IN/OUT Problem. 10dB down. Any ideas?

Mike,

All of the offsets in the configuration menus were set to "0". However, I have discovered that if I enter -12dB for the RF IN/OUT port, it pretty much makes

both the generate and receive read exactly correct. Interesting that this is somewhere close to the loss due to the power attenuator in the 100 Watt option, as compated to the standard 3 watt input. I can't help but wonder if everything is ok physically, but there is a calibration value that is set wrong somewhere?

With the RF IN/OUT offset set this way, it works ok, but I lose the offset amount from the maximum generator output, when using the RF IN/OUT port. For example, I can generate +18dBm from the Duplex port, but only +6dBm from the RF IN/OUT port.

Is there a place to set calibration values other than the "Offset" values in the Config screen?

Thanks for the help.

Garret
W8BUG

# 1477. RE: [hp8924] 8924C RF IN/OUT Problem. 10dB down. Any ideas?

Yahoo group: hp8924
Date: 2013-03-31 21:45:12 UTC
From: Mike (WM4B)
Topic: 1471  Message: 1477

Hmmm… forgot about the 400 KHz option having relay switching instead of PIN Diode.

Riddle me this… what about the input/output on the Antenna In and Duplex Out jacks?

73,

Mike

WM4B

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Garret Scott
Sent: Sunday, March 31, 2013 4:44 PM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] 8924C RF IN/OUT Problem. 10dB down. Any ideas?

No, I have not tried the built-in calibration routines. Not even sure how to run them. Need to go read the manual...

After looking at the block diagram, I get the impression that the power attenuator is in the RF IN/OUT circuit no matter what, and that there will always be a loss due to it. If so, then I suppose there must be a calibration value to compensate somewhere?

For what it's worth, I have verified that the input does still appear to represent a 50 ohm load ok, and that the problem with the RF IN/OUT port seems to be the same across the frequency range. So I don't think it's a burned up load anyway.

If it is the input assembly, any idea what that would entail to repair? Keeping in mind this analyzer has the 400KHz option, with relays and such. I paid a lot for this, and it came with a guarantee, so I think the seller will make it right. I just need to know what is right!

Thanks,

Garret

W8BUG

---

From: Mike (WM4B) <mwbesemer@... <mailto:mwbesemer@...> >
To: hp8924@yahoogroups.com <mailto:hp8924@yahoogroups.com>
Sent: Sun, March 31, 2013 4:26:50 PM
Subject: RE: [hp8924] 8924C RF IN/OUT Problem. 10dB down. Any ideas?

Have you tried running the built-in calibration routines?

I hate to say it, but I suspect an issue with the input assembly. Don’t ask how I know…

73,

Mike
WM4B

From: hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>
[mailto:hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com> ] On Behalf Of Garret Scott
Sent: Sunday, March 31, 2013 4:23 PM
To: hp8924@yahoogroups.com <mailto:hp8924%40yahoogroups.com>
Subject: Re: [hp8924] 8924C RF IN/OUT Problem. 10dB down. Any ideas?

Mike,

All of the offsets in the configuration menus were set to "0". However, I have discovered that if I enter -12dB for the RF IN/OUT port, it pretty much makes both the generate and receive read exactly correct. Interesting that this is somewhere close to the loss due to the power attenuator in the 100 Watt option, as compated to the standard 3 watt input. I can't help but wonder if everything is ok physically, but there is a calibration value that is set wrong somewhere?

With the RF IN/OUT offset set this way, it works ok, but I lose the offset amount from the maximum generator output, when using the RF IN/OUT port. For example, I can generate +18dBm from the Duplex port, but only +6dBm from the RF IN/OUT port.

Is there a place to set calibration values other than the "Offset" values in the Config screen?

Thanks for the help.

Garret
W8BUG

# 1478. Re: [hp8924] 8924C RF IN/OUT Problem. 10dB down. Any ideas?

Yahoo group: hp8924
Date: 2013-03-31 21:54:33 UTC
From: Ralph Mowery
Topic: 1471  Message: 1478

If you look in the files section you can find the calibration programs for the differant input values.  I don't know how or if you can check to see what the 8924c is calibrated at.  It may have origionally been for a lower power input and when  the input attenuator was changed, it was not reprogrammed.

You can run the calibration if you can load the program on a pcmcia card.

I am thinking there is more power out of the duplex out than the RF in/out port.  You can look that up in the specs of the 8924c.

--- On Sun, 3/31/13, Garret Scott <scottgs@...> wrote:

From: Garret Scott <scottgs@...>
Subject: Re: [hp8924] 8924C RF IN/OUT Problem. 10dB down. Any ideas?
To: hp8924@yahoogroups.com
Date: Sunday, March 31, 2013, 4:22 PM

Mike,

All of the offsets in the configuration menus were set to "0".  However, I have discovered that if I enter -12dB for the RF IN/OUT port, it pretty much makes both the generate and receive read exactly correct. Interesting that this is somewhere close to the loss due to the power attenuator in the 100 Watt option, as compated to the standard 3 watt input.  I can't help but wonder if everything is ok physically, but there is a calibration value that is set wrong somewhere?

With the RF IN/OUT offset set this way, it works ok, but I lose the offset amount from the maximum generator output, when using the RF IN/OUT port.  For example, I can generate +18dBm from the Duplex port, but only +6dBm from the RF IN/OUT port.

Is there a place to set calibration values other than the "Offset" values in the Config screen?

Thanks for the help.

Garret
W8BUG

# 1479. Re: [hp8924] 8924C RF IN/OUT Problem. 10dB down. Any ideas?

Yahoo group: hp8924
Date: 2013-04-01 00:35:42 UTC
From: Garret Scott
Topic: 1471  Message: 1479

The Duplex and antenna jacks appear to work correctly.  If I apply the -12dB factor to the RF IN/OUT port in the config setting, then the RF IN/OUT and the Duplex match exactly as they should.

After looking at the spec sheets, I see that the high power input options do reduce the generator output from the RF IN/OUT in proportion to the opton's power rating.  This tends to confirm what the block diagram shows - that the power antennuator is always in the circuit for the RF IN/OUT port.  This is leading me to think it's just a calibration issue.

This unit is supposed to have the factory 100 Watt continous option 016 and the factory 400 KHz option 055, so no one should have been modifying it for high power. It does have the factory nameplate that shows 400 KHz - 1000MHz, and the factory warning plate for 100 Watt on the RF IN/OUT port, so it all looks official, superficially.

I do not have a PCMCIA memory card, so I guess I'm out of luck on running the calibration routines, at least for now.

Thanks,

Garret
W8BUG

---
From: Mike (WM4B) <mwbesemer@...>
To: hp8924@yahoogroups.com
Sent: Sun, March 31, 2013 5:45:21 PM
Subject: RE: [hp8924] 8924C RF IN/OUT Problem. 10dB down. Any ideas?

Hmmm… forgot about the 400 KHz option having relay switching instead of PIN Diode.

Riddle me this… what about the input/output on the Antenna In and Duplex Out jacks?

73,

Mike
WM4B

From:hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Garret Scott
Sent: Sunday, March 31, 2013 4:44 PM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] 8924C RF IN/OUT Problem. 10dB down. Any ideas?

No, I have not tried the built-in calibration routines.  Not even sure how to run them.  Need to go read the manual...

After looking at the block diagram, I get the impression that the power attenuator is in the RF IN/OUT circuit no matter what, and that there will always be a loss due to it.  If so, then I suppose there must be a calibration value to compensate somewhere?

For what it's worth, I have verified that the input does still appear to represent a 50 ohm load ok, and that the problem with the RF IN/OUT port seems to be the same across the frequency range.  So I don't think it's a burned up load anyway.

If it is the input assembly, any idea what that would entail to repair? Keeping in mind this analyzer has the 400KHz option, with relays and such.  I paid a lot for this, and it came with a guarantee, so I think the seller will make it right.  I just need to know what is right!

Thanks,
Garret
W8BUG

---

From:Mike (WM4B) <mwbesemer@...>
To: hp8924@yahoogroups.com
Sent: Sun, March 31, 2013 4:26:50 PM
Subject: RE: [hp8924] 8924C RF IN/OUT Problem. 10dB down. Any ideas?

Have you tried running the built-in calibration routines?

I hate to say it, but I suspect an issue with the input assembly. Don’t ask how I know…

73,

Mike
WM4B

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Garret Scott
Sent: Sunday, March 31, 2013 4:23 PM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] 8924C RF IN/OUT Problem. 10dB down. Any ideas?

Mike,

All of the offsets in the configuration menus were set to "0". However, I have discovered that if I enter -12dB for the RF IN/OUT port, it pretty much makes both the generate and receive read exactly correct. Interesting that this is somewhere close to the loss due to the power attenuator in the 100 Watt option, as compated to the standard 3 watt input. I can't help but wonder if everything is ok physically, but there is a calibration value that is set wrong somewhere?

With the RF IN/OUT offset set this way, it works ok, but I lose the offset amount from the maximum generator output, when using the RF IN/OUT port. For example, I can generate +18dBm from the Duplex port, but only +6dBm from the RF IN/OUT port.

Is there a place to set calibration values other than the "Offset" values in the Config screen?

Thanks for the help.

Garret
W8BUG

# 1480. Re: 8924C RF IN/OUT Problem. 10dB down. Any ideas?

Yahoo group: hp8924
Date: 2013-04-01 18:24:27 UTC
From: c_day_nz
Topic: 1471  Message: 1480

After reading all posts on this it does sound to me that an 100W attenuator has been installed but the calibration routine has not been run or it has been inadvertantly calibrated back to the factory 3W standard. Could also have had the card with cal eeprom replaced / repaired. You'll need to get hold of a PCMCIA SRAM card and follow the procedured in the the group files section (Attenuator Calibration). I'd be talking to the supplier. 73s de chris zl1cvd.

--- In hp8924@yahoogroups.com, "Garret" <scottgs@...> wrote:
>
> I just received my new (to me) HP 8924C. It seems to work ok, except that when I perform a test through the "RF IN/OUT" port, everything reads about 10dB down.
>
> For example, if I connect a 10 watt transmitter to the RF IN/OUT port, it reads only 1 watt. When I generate with "RX Test" mode, it generates about 10db less than what is displayed. If I switch to the "Duplex" port, it generates what is displayed correctly.
>
> I haven't tested everything, but it seems to work ok with everything else I've tested. Receive sensitivity appears good through the "Antenna" port.
>
> This unit has the 100 watt option and the 400KHz - 1000MHz option.
>
> Any help would be greatly appreciated. Hopfully, I just forgot to push a button somewhere.
>
> Thanks,
> Garret
> W8BUG
>

# 1481. Re: 8924C RF IN/OUT Problem. 10dB down. Any ideas?

Yahoo group: hp8924
Date: 2013-04-01 18:45:18 UTC
From: va7oj
Topic: 1471  Message: 1481

Garret, Chris,

Here is a resource for PCMCIA SRAM cards:

http://www.amtron.com/sram.htm

Others can be accessed via Google. I purchased a 1 MB coin-battery card from Amtron for my Agilent 8935, and it is of excellent quality.

73, Adam VA7OJ/AB4OJ

--- In hp8924@yahoogroups.com, "c_day_nz" <c.day@...> wrote:
>
> After reading all posts on this it does sound to me that an 100W attenuator has been installed but the calibration routine has not been run or it has been inadvertantly calibrated back to the factory 3W standard. Could also have had the card with cal eeprom replaced / repaired. You'll need to get hold of a PCMCIA SRAM card and follow the procedured in the the group files section (Attenuator Calibration). I'd be talking to the supplier. 73s de chris zl1cvd.
>
> --- In hp8924@yahoogroups.com, "Garret" <scottgs@> wrote:
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> > This unit has the 100 watt option and the 400KHz - 1000MHz option.
> >
> > Any help would be greatly appreciated. Hopfully, I just forgot to push a button somewhere.
> >
> > Thanks,
> > Garret
> > W8BUG
> >
>

# 1482. Re: HP8920A, Audio power, SINAD and AUDIO OUT Socket

Yahoo group: hp8924
Date: 2013-04-01 20:24:08 UTC
From: Joe Leikhim
Topic: 1482  Message: 1482

(Crossposted from hp_agilent_equipment@yahoogroups.com)

Clive;

You are correct, on page 80 and 83 of the 8920 Application Handbook, those drawings are in error.

The speaker audio of the receiver under test should be measured at the audio in connectors on the front panel. You have option of balanced or unbalanced audio input.

Go to this website you can download all the manuals including a link to an MP4 video showing how to operate the test set for common tests.

hp8924@yahoogroups.com

Also check out

https://www.febo.com/cgi-bin/mailman/listinfo/hp8920

--
Joe Leikhim

Leikhim and Associates

Communications Consultants

Oviedo, Florida

JLeikhim@...

407-982-0446

WWW.LEIKHIM.COM

# 1483. Re: [hp8924] Re: 8924C RF IN/OUT Problem. 10dB down. Any ideas?

Yahoo group: hp8924
Date: 2013-04-01 22:08:27 UTC
From: Garret Scott
Topic: 1471  Message: 1483

Chris,

I now suspect you are correct, that either the attenuator was recently installed, or boards swapped, or some combination therof.

If I understand correctly, I can get an appropriate PCMCIA SRAM card and put the calibration routines on it. I can then properly recalibrate it and the software will write the new calibration values to the eeprom?

The vendor I bought it from said he will fix it.  But I will have to ship it back and forth accross the country.  I hate to do that if it's something I can do myself without too much trouble, especially considering that I would like to know how to calibrate it anyway.

It does seem to work really well otherwise, and when I put that offset in the config screen, it works perfectly and looks like it meets all of the specs for input/output power.

Thanks everyone for the help.  I'm off to find a PCMCIA card.

Garret
W8BUG

---
From: c_day_nz <c.day@...>
To: hp8924@yahoogroups.com
Sent: Mon, April 1, 2013 2:24:32 PM
Subject: [hp8924] Re: 8924C RF IN/OUT Problem. 10dB down. Any ideas?

After reading all posts on this it does sound to me that an 100W attenuator has been installed but the calibration routine has not been run or it has been inadvertantly calibrated back to the factory 3W standard. Could also have had the card with cal eeprom replaced / repaired. You'll need to get hold of a PCMCIA SRAM card and follow the procedured in the the group files section (Attenuator Calibration). I'd be talking to the supplier. 73s de chris zl1cvd.

--- In hp8924@yahoogroups.com, "Garret" <scottgs@...> wrote:
>
> I just received my new (to me) HP 8924C. It seems to work ok, except that when
>I perform a test through the "RF IN/OUT" port, everything reads about 10dB down.
>
>
> For example, if I connect a 10 watt transmitter to the RF IN/OUT port, it reads
>only 1 watt. When I generate with "RX Test" mode, it generates about 10db less
>than what is displayed. If I switch to the "Duplex" port, it generates what is
>displayed correctly.
>

>
> I haven't tested everything, but it seems to work ok with everything else I've
>tested. Receive sensitivity appears good through the "Antenna" port.
>
> This unit has the 100 watt option and the 400KHz - 1000MHz option.
>
> Any help would be greatly appreciated. Hopfully, I just forgot to push a button
>somewhere.
>
>
> Thanks,
> Garret
> W8BUG
>

# 1484. Re: [hp8924] Re: 8924C RF IN/OUT Problem. 10dB down. Any ideas?

Yahoo group: hp8924
Date: 2013-04-01 23:03:07 UTC
From: Ralph Mowery
Topic: 1471  Message: 1484

Ask if the dealer will send you a card with the calibration on it.  It should not cost him but a buck or two to send the card, then you can run the program on the card and send it back to him.

About a year ago on ebay there was a fellow that I bought an upgrade from the low power to 60 watts input.  He billed my credit card for about $ 50 extra to send the calibration card with the understanding when he got the card back he would credit my card the $ 50.

Everything went fine.  I took out the low power unit that was about the size of a postage stamp and as thick as a dime.  Then soldered the new one in.  There is a dip switch or two that have to be flipped inside the 8924c that allows you to write the new program.  Then you put the switch back.  Not bad to do if you have to take it apart to install the new atteunator.
 Seems like there were about 40 screws to remove and replace..

Look close at your unit.  See if at the RF IN/OUT is printed on like the warning on the antenna port, of if you can run your fingernail over it and it is really a sticker.  The sticker was part of the factory upgrade kit.
If it has a sticker, it could have started out as a low power unit.

For that , there is no real calibration, just a softwear change to tell it the attuenuator value.

--- On Mon, 4/1/13, Garret Scott <scottgs@...> wrote:

From: Garret Scott <scottgs@bellsouth.net>
Subject: Re: [hp8924] Re: 8924C RF IN/OUT Problem. 10dB down. Any ideas?
To: hp8924@yahoogroups.com
Date: Monday, April 1, 2013, 6:08 PM

Chris,

I now suspect you are correct, that either the attenuator was recently installed, or boards swapped, or some combination therof.

If I understand correctly, I can get an appropriate PCMCIA SRAM card and put the calibration routines on it. I can then properly recalibrate it and the software will write the new calibration values to the eeprom?

The vendor I bought it from said he will fix it.  But I will have to ship it back and forth accross the country.  I hate to do that if it's something I can do myself without too much trouble, especially considering that I would like to know how to calibrate it anyway.

It does seem to work really well otherwise, and when I put that offset in the config screen, it works perfectly and looks like it meets all of the specs for input/output power.

Thanks everyone for the help.  I'm off to find a PCMCIA card.

Garret
W8BUG

# 1485. HP8924C locks up.

Yahoo group: hp8924
Date: 2013-04-02 07:58:28 UTC
From: magoknes
Topic: 1485  Message: 1485

I`m new to the board so thank you for letting me inn. The set compleets self test ok but it stopps there. After that it takes approx. one minute without anything happening and it displays the folloving message.
"$ Header: CDMACallCnt l.m,v 25.3 97/07/09 15:58:39 hmgr Exp $" at line number 4594.
Condition 0. It says to try to restart to se if the problem goes away. But it does the same all ower again. It also says if the problem remains to contact Technical support. I also notised the Signal Generator led indicates unlocked. I`ll apprciate your professional advice very much.

Magne Oknes

# 1486. Re: 8924C RF IN/OUT Problem. 10dB down. Any ideas?

Yahoo group: hp8924
Date: 2013-04-03 06:35:07 UTC
From: c_day_nz
Topic: 1471  Message: 1486

I agree Ralph. The vendor should send the correct calibration data on a card - even if he charges a refundable deposit upon return.

As I understand it, the calibration data on the group website was only intended for the original attenuator module it shipped with. Every attenuator exhibits a slight attenuation variance across its frequency range. The data file reflects this and the program simply loads the data file into the 8924 calibration eeprom. There is no true calibration done on the fitted attenuator. I can't recall if there was another internal calibration routine that can be run to correct any fitted attenuator variance. Maybe another more experienced group member can advise this.

Cheers, Chris ZL1CVD

# 1487. Re: HP8924C locks up.

Yahoo group: hp8924
Date: 2013-04-03 05:47:34 UTC
From: c_day_nz
Topic: 1485  Message: 1487

Welcome to the group Magne.

Check is how dusty the set is inside. The units I have worked on were all pretty dusty inside. Some errors were fixed by removing all modules, vacuuming the dust out of connects, modules, cards & cleaning fan blades to ensure cool quiet running.

But, good spotting the out of lock LED as these generally indicate a power supply issue - specifically the +40V (synthesizer VCO tuning voltage). Allot of issues with an 8924C (& 8920, E8285, 8935 series, Etc) can are cured by replacing all electrolytic caps in the SMPSU and regulator units. Its a fairly painless but tedious job - lots of screws to undo, redo, plated through PCB's to desolder, etc. Alternatively, search eBay do replacement supplies - some sellers credit you back for the old supply.

Cheers, Chris ZL1CVD

--- In hp8924@yahoogroups.com, "magoknes" <magoknes@...> wrote:
>
> I`m new to the board so thank you for letting me inn. The set compleets self test ok but it stopps there. After that it takes approx. one minute without anything happening and it displays the folloving message.
> "$ Header: CDMACallCnt l.m,v 25.3 97/07/09 15:58:39 hmgr Exp $" at line number 4594. Condition 0. It says to try to restart to se if the problem goes away. But it does the same all ower again. It also says if the problem remains to contact Technical support. I also notised the Signal Generator led indicates unlocked. I`ll apprciate your professional advice very much.
>
> Magne Oknes
>

# 1488. Re: [hp8924] Re: HP8924C locks up.

Yahoo group: hp8924
Date: 2013-04-03 11:26:50 UTC
From: Robert Atkinson
Topic: 1485  Message: 1488

Chris's suggestion of removing and refitting cards is a good one. Be very careful with the vacuum cleaner though unless it's designed for use on electronics. normal vacuum cleaners can generate a lot of static electricity (plastic hose, brush bristles and moving air are all possible sources) and may zap your electronics.

Robert G8RPI.

---
From: c_day_nz <c.day@...>
To: hp8924@yahoogroups.com
Sent: Wednesday, 3 April 2013, 6:47
Subject: [hp8924] Re: HP8924C locks up.

Welcome to the group Magne.

Check is how dusty the set is inside. The units I have worked on were all pretty dusty inside. Some errors were fixed by removing all modules, vacuuming the dust out of connects, modules, cards & cleaning fan blades to ensure cool quiet running.

But, good spotting the out of lock LED as these generally indicate a power supply issue - specifically the +40V (synthesizer VCO tuning voltage). Allot of issues with an 8924C (& 8920, E8285, 8935 series, Etc) can are cured by replacing all electrolytic caps in the SMPSU and regulator units. Its a fairly painless but tedious job - lots of screws to undo, redo, plated through PCB's to desolder, etc. Alternatively, search eBay do replacement supplies - some sellers credit you back for the old supply.

Cheers, Chris ZL1CVD

--- In mailto:hp8924%40yahoogroups.com, "magoknes" <magoknes@...> wrote:
>
> I`m new to the board so thank you for letting me inn. The set compleets self test ok but it stopps there. After that it takes approx. one minute without anything happening and it displays the folloving message.
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>
> Magne Oknes
>

# 1489. Re: HP8924C locks up.

Yahoo group: hp8924
Date: 2013-04-03 15:21:32 UTC
From: magoknes
Topic: 1485  Message: 1489

The unit is clean and dustfree so that is not the matter. Ì appriciat very mutch your other suggestion and I`m rolling up my sleevs and getting to work. I`m really hoping you are right. I bought this unit from on ebay from Hong Kong some years ago and it worked fine as far as I remember. It`s been sitting on the shelf ever sinse but now I need it badly for one of my amature radio sets. Again thank you.
Magne Oknes

--- In hp8924@yahoogroups.com, "c_day_nz" <c.day@...> wrote:
>
> Welcome to the group Magne.
>
> Check is how dusty the set is inside. The units I have worked on were all pretty dusty inside. Some errors were fixed by removing all modules, vacuuming the dust out of connects, modules, cards & cleaning fan blades to ensure cool quiet running.
>
> But, good spotting the out of lock LED as these generally indicate a power supply issue - specifically the +40V (synthesizer VCO tuning voltage). Allot of issues with an 8924C (& 8920, E8285, 8935 series, Etc) can are cured by replacing all electrolytic caps in the SMPSU and regulator units. Its a fairly painless but tedious job - lots of screws to undo, redo, plated through PCB's to desolder, etc. Alternatively, search eBay do replacement supplies - some sellers credit you back for the old supply.
>
> Cheers, Chris ZL1CVD
>
> --- In hp8924@yahoogroups.com, "magoknes" <magoknes@> wrote:
> >
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> >
> > Magne Oknes
> >
>

# 1490. Firmware Backup?

Yahoo group: hp8924
Date: 2013-04-04 20:15:42 UTC
From: technicavolous
Topic: 1490  Message: 1490

I believe my firmware is 08.04 ... is there a way to 'archive' that?

# 1491. Re: Firmware Backup?

Yahoo group: hp8924
Date: 2013-04-05 10:58:17 UTC
From: c_day_nz
Topic: 1490  Message: 1491

I haven't found a way to do this other than sourcing the original HP firmware files. My experience with E8285 (effectively same as a 8924C for this discussion) is the upgrade routine loads images into multiple EEPOMS on multiple cards: controller, DSP & protocol processor. Each of the cards has its own UP or DSP and they all communicate via serial. If one or more cards has a revision of firmware that is not compatible with another, it fails to boot. The firmware upgrade routine also does a check on its binary files and refused to upload firmware data files I hacked due to invalid check-sum. The real time operating system on 8924/E8285 is pSOS-6800 by Software Components Group ☐ now defunct. FWIW there is an open source PSOS+ product called Reliant which could be used to run on these com test sets but the development cost would be huge. It would probably cost less and be more efficient to throw in an ARM controller. Cheers, Chris ZL1CVD

```
--- In hp8924@yahoogroups.com, "technicavolous" <bas_tad@...> wrote:
>
> I believe my firmware is 08.04 ... is there a way to 'archive' that?
>
```

# 1492. Replacing video pots?

Yahoo group: hp8924
Date: 2013-04-05 19:20:47 UTC
From: technicavolous
Topic: 1492  Message: 1492

I have shaky and rolling video. Twiddling with the pots in the video board eventually I can get things to stabilize for a while then it happens again.

I understand this is fairly common.

Does anyone have a description of what order things should come apart to remove that section and replace the pots? Is it straightforward? I've had the cover off but have been reluctant to go further yet.

Thanks
Tracy N4LGH

# 1493. Re: [hp8924] Replacing video pots?

Yahoo group: hp8924
Date: 2013-04-05 21:39:22 UTC
From: Robert Atkinson
Topic: 1492  Message: 1493

Hi Tracy,
When you say the video board do you mean the monitor module (A3)? The video is generated digitally in the CRT Drive (A22) so there is no timing adjustment. I've not seen this fault on the 8924C, but experience of the unit and similar faults would indicate faulty capacitors rather than presets. Presets (of the quality used by HP) tend to either fail completely or recover for a long time when "tweeked" to clear a bad contact. They do not tend to drift.

Robert G8RPI.

---
From: technicavolous <bas_tad@...>
To: hp8924@yahoogroups.com
Sent: Friday, 5 April 2013, 20:20
Subject: [hp8924] Replacing video pots?

I have shaky and rolling video. Twiddling with the pots in the video board eventually I can get things to stabilize for a while then it happens again.

I understand this is fairly common.

Does anyone have a description of what order things should come apart to remove that section and replace the pots? Is it straightforward? I've had the cover off but have been reluctant to go further yet.

Thanks
Tracy N4LGH

# 1494. Re: [hp8924] Replacing video pots?

Yahoo group: hp8924
Date: 2013-04-05 22:38:32 UTC
From: Ralph Mowery
Topic: 1492  Message: 1494

I think if you look on the Agilent site you can find a service manual that will tell you what to remove.

Look for a file labled 08924-90061.  It is a service manual about 11 megs in length.
I am not sure if anyone put on the files here or not.

--- On Fri, 4/5/13, technicavolous <bas_tad@yahoo.com> wrote:

From: technicavolous <bas_tad@...>
Subject: [hp8924] Replacing video pots?
To: hp8924@yahoogroups.com
Date: Friday, April 5, 2013, 3:20 PM

I have shaky and rolling video. Twiddling with the pots in the video board eventually I can get things to stabilize for a while then it happens again.

I understand this is fairly common.

Does anyone have a description of what order things should come apart to remove that section and replace the pots? Is it straightforward? I've had the cover off but have been reluctant to go further yet.

Thanks
Tracy N4LGH

---

Yahoo! Groups Links

# 1495. Re: Replacing video pots?

Yahoo group: hp8924
Date: 2013-04-06 02:10:07 UTC
From: c_day_nz
Topic: 1492  Message: 1495

Another common problem - CRT unit leaky caps = lack of video lock, blurry, shaky, Etc. I'm picking the pots will be fine but the caps will be leaky. Replace them with 105 degree C caps - it gets warm inside an 8924..

--- In hp8924@yahoogroups.com, "technicavolous" <bas_tad@...> wrote:
>
> I have shaky and rolling video. Twiddling with the pots in the video board eventually I can get things to stabilize for a while then it happens again.
>
> I understand this is fairly common.
>
> Does anyone have a description of what order things should come apart to remove that section and replace the pots? Is it straightforward? I've had the cover off but have been reluctant to go further yet.
>
> Thanks
> Tracy N4LGH
>

# 1496. Re: Replacing video pots?

Yahoo group: hp8924
Date: 2013-04-06 20:10:48 UTC
From: wb6dgn_tom@att.net
Topic: 1492  Message: 1496

I'm curious; does anybody know if the capacitor problem is limited to the CRT module or does the problem exist throughout the entire instrument? I think my display is having cap. issues (haven't had time to open it up yet) and wondering if its worth repairing. If capacitors throughout the entire unit need to be replaced, that could involve many hours and get pretty costly just for the caps, especially if I replace them with tantalum equivalents.
Thinking that it might be better to just cut my losses and scrap the thing out if the problem is too extensive.
Tom
--- In hp8924@yahoogroups.com, "c_day_nz" <c.day@...> wrote:
>
> Another common problem - CRT unit leaky caps = lack of video lock, blurry, shaky, Etc. I'm picking the pots will be fine but the caps will be leaky. Replace them with 105 degree C caps - it gets warm inside an 8924..
>
> --- In hp8924@yahoogroups.com, "technicavolous" <bas_tad@> wrote:
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> > I have shaky and rolling video. Twiddling with the pots in the video board eventually I can get things to stabilize for a while then it happens again.
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> > I understand this is fairly common.
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> > Does anyone have a description of what order things should come apart to remove that section and replace the pots? Is it straightforward? I've had the cover off but have been reluctant to go further yet.
> >
> > Thanks
> > Tracy N4LGH
> >
>

# 1497. Re: [hp8924] Re: Replacing video pots?

Yahoo group: hp8924
Date: 2013-04-06 21:04:49 UTC
From: Robert Atkinson
Topic: 1492  Message: 1497

Hi Tom,
The power supply capacitors can also give trouble, but I don't think en-mass replacement of capacitors on other boards is justified. The only non-PSU or CRT capacitor failure I've seen was a front panel keyboard failure caused by a failed tantalum, it had been installed backwards from new (timing circuit so no low impedance supply to cause immediate failure). It's electrolytics in high stress and temperature applications like switch-mode PSUs and CRT monitors that give most trouble. DON'T replace wet electrolytics with tantalums. Solid tantalums have different characteristics and can cause issues. Use quality 105 deg C rated electrolytics.

Robert G8RPI.

---
From: "wb6dgn_tom@..." <wb6dgn_tom@att.net>
To: hp8924@yahoogroups.com
Sent: Saturday, 6 April 2013, 21:10
Subject: [hp8924] Re: Replacing video pots?

I'm curious; does anybody know if the capacitor problem is limited to the CRT module or does the problem exist throughout the entire instrument? I think my display is having cap. issues (haven't had time to open it up yet) and wondering if its worth repairing. If capacitors throughout the entire unit need to be replaced, that could involve many hours and get pretty costly just for the caps, especially if I replace them with tantalum equivalents.
Thinking that it might be better to just cut my losses and scrap the thing out if the problem is too extensive.
Tom
--- In hp8924@yahoogroups.com, "c_day_nz" <c.day@...> wrote:
>
> Another common problem - CRT unit leaky caps = lack of video lock, blurry, shaky, Etc. I'm picking the pots will be fine but the caps will be leaky. Replace them with 105 degree C caps - it gets warm inside an 8924..
>
> --- In hp8924@yahoogroups.com, "technicavolous" <bas_tad@> wrote:
> >
> > I have shaky and rolling video. Twiddling with the pots in the video board eventually I can get things to stabilize for a while then it happens again.
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> > I understand this is fairly common.
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> > Does anyone have a description of what order things should come apart to remove that section and replace the pots? Is it straightforward? I've had the cover off but have been reluctant to go further yet.
> >
> > Thanks
> > Tracy N4LGH

> >
>

# 1498. Re: Boot Up Mode

Yahoo group: hp8924
Date: 2013-04-07 03:22:32 UTC
From: hr2pac
Topic: 1461  Message: 1498

FYI. I spoke to Rick@Amtronix and he has confirmed the typo and fixed it http://www.amtronix.com/poweron.htm take care all.

Pete..

--- In hp8924@yahoogroups.com, "hr2pac" <hr2pac@...> wrote:
>
> I finally got my HP8924C, thank you Rick@Amtronix for packaging it well and for all of you attention and expertise, I started playing with it and I noticed that when you turn it on it immediately goes into the CDMA boot up mode, I configured it as per instructions http://www.amtronix.com/poweron.htm for the POWRON boot up sequence, I save everything but when I turn it back on it boots up in CDMA again, I find myself having to use the recall button to go back to POWRON, any advise or thoughts? thank you all.
>

# 1499. Re: Replacing video pots?

Yahoo group: hp8924
Date: 2013-04-07 04:13:52 UTC
From: wb6dgn_tom@att.net
Topic: 1492  Message: 1499

Hi Robert,
Thanks for the reply and heads-up on using tantalums. I suppose the same would be true for a radio I'm changing out as well. I bought tantalums for it but, fortunately, haven't had time to put them in yet and, so far, the old ones are not leaking so guess I'd better order electrolytics for it too. I naively thought they were interchangeable at will. Guess some reading is in order.
Wonder if anybody's made up a list of the caps. needed for the display yet. Hate to reinvent the wheel if not necessary but, if nobody speaks up, guess its my turn to make a list with pn, etc.
Well, I finally cleared off a space to take the thing apart so, hopefully, tomorrow I'll know what the fix is going to be
Tom

--- In hp8924@...m, Robert Atkinson <robert8rpi@...> wrote:
>
> Hi Tom,
> The power supply capacitors can also give trouble, but I don't think en-mass replacement of capacitors on other boards is justified. The only non-PSU or CRT capacitor failure I've seen was a front panel keyboard failure caused by a failed tantalum, it had been installed backwards from new (timing circuit so no low impedance supply to cause immediate failure). It's electrolytics in high stress and temperature applications like switch-mode PSUs and CRT monitors that give most trouble. DON'T replace wet electrolytics with tantalums. Solid tantalums have different characteristics and can cause issues. Use quality 105 deg C rated electrolytics.
>
> Robert G8RPI.
>
>
>
>
> _____
> From: "wb6dgn_tom@..." <wb6dgn_tom@...>
> To: hp8924@yahoogroups.com
> Sent: Saturday, 6 April 2013, 21:10
> Subject: [hp8924] Re: Replacing video pots?
>
>
> Â
>
>
> I'm curious; does anybody know if the capacitor problem is limited to the CRT module or does the problem exist throughout the entire instrument? I think my display is having cap. issues (haven't had time to open it up yet) and wondering if its worth repairing. If capacitors throughout the entire unit need to be replaced, that could involve many hours and get pretty costly just for the caps, especially if I replace them with tantalum

equivalents.
> Thinking that it might be better to just cut my losses and scrap the thing out if the problem is too extensive.
> Tom
> --- In hp8924@yahoogroups.com, "c_day_nz" <c.day@> wrote:
> >
> > Another common problem - CRT unit leaky caps = lack of video lock, blurry, shaky, Etc. I'm picking the pots will be fine but the caps will be leaky. Replace them with 105 degree C caps - it gets warm inside an 8924..
> >
> > --- In hp8924@yahoogroups.com, "technicavolous" <bas_tad@> wrote:
> > >
> > > I have shaky and rolling video. Twiddling with the pots in the video board eventually I can get things to stabilize for a while then it happens again.
> > >
> > > I understand this is fairly common.
> > >
> > > Does anyone have a description of what order things should come apart to remove that section and replace the pots? Is it straightforward? I've had the cover off but have been reluctant to go further yet.
> > >
> > > Thanks
> > > Tracy N4LGH
> > >
> >
>

# 1500. Ongoing repairs to 8935 Powersupply

Yahoo group: hp8924
Date: 2013-04-07 06:11:32 UTC
From: gajas05
Topic: 1500  Message: 1500

Hello to all,
My name is Geoff, for Alice Springs Australia,
I picked up a 8935 Series test set (E6380A) at an online auction a couple of years back, it was going to be a gamble as it was advertised as not working, so I took a punt, being the olny interested party the unit transfered to my love and care & hopefully get better again.

I ended up tracing the fault to a Blown Mosfet in the PSU, & once replaced the unit fired up into life.however..

from time to time while using the 8935 it blows the mosfet again, so either there is another fault in the unit or I have a technical induced issue by way of me replacing the original component with the same as was in it as I received it.

I know that some of the modules between the 8935 8920 8924 8285 ect. are the same but am unsure of the psu.

what I really need is a circuit schematic of the psu to work from, I had a quick look through the files section and browsed through the 8924 circuits but couldn't see anything of interest.

Hoping someone can identify this component atlease I will post a pic of the PCB in the photo section for component identification.

the MSOFET that allways goes is the inner one near the 2 large input capicators on the 0950-3690 board

thanks

# 1501. Re: Ongoing repairs to 8935 Powersupply

Yahoo group: hp8924
Date: 2013-04-07 12:34:10 UTC
From: kernkampj
Topic: 1500  Message: 1501

Geoff -

People have been looking for the PS tech info for a long time with no luck, so you are probably on your own here.

However, it sounds like your FET is just below the needed specs to keep working.

Try looking for one that has a bit higher voltage and current specs, and a bit lower Rds, in a package type that will mount in place of the original.

And, please let us all know how it works out.

John K.
==========

--- In hp8924@yahoogroups.com, "gajas05" <samtron62@...> wrote:
>
> Hello to all,
> My name is Geoff, for Alice Springs Australia,
> I picked up a 8935 Series test set (E6380A) at an online auction a couple of years back, it was going to be a gamble as it was advertised as not working, so I took a punt, being the olny interested party the unit transfered to my love and care & hopefully get better again.
>
> I ended up tracing the fault to a Blown Mosfet in the PSU, & once replaced the unit fired up into life.however..
>
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>
>
> thanks

>

# 1502. Re: Ongoing repairs to 8935 Powersupply

Yahoo group: hp8924
Date: 2013-04-07 16:31:24 UTC
From: robert8rpi
Topic: 1500 Message: 1502

Hi Geoff,
I don't have a circuit or even a 8935, however from your description of the fault and knowledge of switch mode supplies I'd suspect a failed snubber circuit. Snubbers are a series resistor and capacitor connected across a switching transistor (or mechanical switch) to limit the rate of change of voltage (dV/dt)across the the device. Excessive dV/dt causes EMI and stresses the transistor. A failed open snubber won't stop the circuit working but may allow dV/dT to over stress the transistor. If the transistor is working close to the edge of its specification it may fail quickly. If it is conservately rated it may last some time beore failing. Most likely the snubber resistor has failed open. Less likely is that the capacitor (film or ceramic) has failed open.

Hope this helps,
Robert G8RPI.

--- In hp8924@yahoogroups.com, "gajas05" <samtron62@...> wrote:
>
> Hello to all,
> My name is Geoff, for Alice Springs Australia,
> I picked up a 8935 Series test set (E6380A) at an online auction a couple of years back, it was going to be a gamble as it was advertised as not working, so I took a punt, being the olny interested party the unit transfered to my love and care & hopefully get better again.
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>
> thanks

>

# 1503. Re: Ongoing repairs to 8935 Powersupply

Yahoo group: hp8924
Date: 2013-04-08 03:35:18 UTC
From: gajas05
Topic: 1500 Message: 1503

Guys,
Thanks for the comments, The Mosfet that is currently in the unit is a IRFP460, This is slightly higher rated than the component that was fitted when i received the unit, ( from memory the original part was a IRFP450 but I don't know if that had been substutited before I got hold of the unit. ( hence my request for identification of the component.

next time it throws a micky I will have a close look at the snubber curcuit & see if i can get any more clues.

I picked up a pack of 10 Mosfets for it ex china for about $12.00 so its not a great expense to repaire each time, just a a mission from hell to pull the thinkg down & rebuild.

--- In hp8924@yahoogroups.com, "robert8rpi" <robert8rpi@...> wrote:
>
> Hi Geoff,
> I don't have a circuit or even a 8935, however from your description of the fault and knowledge of switch mode supplies I'd suspect a failed snubber circuit. Snubbers are a series resistor and capacitor connected across a switching transistor (or mechanical switch) to limit the rate of change of voltage (dV/dt)across the the device. Excessive dV/dt causes EMI and stresses the transistor. A failed open snubber won't stop the circuit working but may allow dV/dT to over stress the transistor. If the transistor is working close to the edge of its specification it may fail quickly. If it is conservately rated it may last some time beore failing. Most likely the snubber resistor has failed open. Less likely is that the capacitor (film or ceramic) has failed open.
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> Hope this helps,
> Robert G8RPI.
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> > I ended up tracing the fault to a Blown Mosfet in the PSU, & once replaced the unit fired up into life.however..
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> > the MSOFET that allways goes is the inner one near the 2 large input capicators on the 0950-3690 board
> >
> >
> > thanks
> >
>

# 1504. Replced Video Board

Yahoo group: hp8924
Date: 2013-04-16 00:48:09 UTC
From: technicavolous
Topic: 1504  Message: 1504

Just reporting in to let you all know I successfully replaced the boards in the video 'cage' as I call it. The fellow 'Joon' had sent me a replacement module but his 'new' tube was burned much worse than mine. Mine is actually just fine, the boards had broken pots so I swapped those and all is well.

While I wasn't very happy getting a 'refurbished' unit that had significant video problems, Joon went out of his way to make it right without my sending the unit back to him which i refused to do ;]

Now if I could just get that '8220 going with a VGA monitor all would be great! I'll put that in a different post ...

Tracy N4LGH

# 1505. Cant seem to make GBS8200 work

Yahoo group: hp8924
Date: 2013-04-16 01:59:44 UTC
From: technicavolous
Topic: 1505  Message: 1505

I have built the LM393 'Sync Separator' circuit a couple times and still can't quite get this thing to stay up. It will 'capture' one distorted screen and freeze.

The first time I had been a little loose on the wiring, so I re-did it thinking maybe I had too much exposed signal line. This time I Did it microwave style deadbug and still the same. I'm using the RGBS input.

The only difference is I have the dual output board vs the single - could that possibly be a difference?

Tomorrow I should receive some LM1881's and I'm going to have another go at it. So far this is the only thing I haven't been able to conquer on this beast ;]

Tracy N4LGH

# 1506. Let Some Smoke Out

Yahoo group: hp8924
Date: 2013-04-18 01:05:52 UTC
From: n8rat
Topic: 1506  Message: 1506

Hello All,

I'm new to the group and have committed the bonehead move of the month (ok, the year). I inadvertently transmitted into the Duplex BNC connector with about 15 watts at UHF for a couple of seconds. A moment later I detected the dreaded smell of something hot. The 8924 still seems to function, however the some of my readings are now several dB off from what they were before I let the smoke out. For example, I swept a re-swept a UHF duplexer that I looked at a few minutes before and the insertion loss shows to be about 3 dB more than before even after I normalized the settings. Any ideas what might have been zorched?

Thanks!

Rod
N8RAT

# 1507. RE: [hp8924] Let Some Smoke Out

Yahoo group: hp8924
Date: 2013-04-18 11:43:04 UTC
From: mwbesemer@...
Topic: 1506  Message: 1507
Attachments: 2 described; binary payloads are missing from this source WARC

[ Attachment content not displayed ]

# 1508. Re: [hp8924] Let Some Smoke Out

Yahoo group: hp8924
Date: 2013-04-18 13:21:50 UTC
From: Rodney Rockwell
Topic: 1506  Message: 1508

Hi Mike,

Yes, I was headed toward that neighborhood. The unit is built like a battleship and dis-assembly is very straightforward. I have done a fair amount of SM work. I appreciate the info on relevant documentation. Before I button it up, I'll introduce it to my air compressor (I can't believe how filthy these things get). I'll give this a day's effort. After that, I'll box it up & send to Amtronix.

Thanks again for the info.

Rod
N8RAT

---
From: "mwbesemer@..." <mwbesemer@...>
To: hp8924@yahoogroups.com
Sent: Thursday, April 18, 2013 7:43 AM
Subject: RE: [hp8924] Let Some Smoke Out

Rod,

Almost certainly something in the RF Input Assembly is cooked.  I don't have my -8924 manuals on this computer so I'm looking at an -8920 manual, but both test sets use the same assembly.

It's a bit of a bugger to get to and it's full of SMD components.  You CAN troubleshoot and repair it; many of the parts are available at Mouser - it just takes a little more diligence to work on the SMD stuff if you're not used to doing it.

The Internet will lead you to an HP-8920B Assembly Level Repair Manual, an HP-8920A-B and 8921A Test Set Assembly Level Repair 08920-90168, and an HP-8920 Component Level Information Packet.  These will all be useful for the -8924 RF Input Assembly.

Good luck.

Mike
WM4B

On Wed, Apr 17, 2013 at 9:05 PM, n8rat wrote:

Hello All,

I'm new to the group and have committed the bonehead move of the month (ok, the year). I inadvertently transmitted into the Duplex BNC connector with about 15 watts at UHF for a couple of seconds. A moment later I detected the dreaded smell of something hot. The 8924 still seems to function, however the some of my readings are now several dB off from what they were before I let the smoke out. For example, I swept a re-swept a UHF duplexer that I looked at a few minutes before and the insertion loss shows to be about 3 dB more than

before even after I normalized the settings. Any ideas what might have been zorched?

Thanks!

Rod
N8RAT

# 1509. RE: [hp8924] Let Some Smoke Out

Yahoo group: hp8924
Date: 2013-04-18 13:38:59 UTC
From: Brian Swann
Topic: 1506  Message: 1509

If you can determine which module is bad, Amtronix might also be able to sell you a refurb module, or exchange one. That would save you the considerable expense of shipping the whole unit. It would be worth a call or email to Rick. Briann1bsTo: hp8924@yahoogroups.com
From: n8rat@...
Date: Thu, 18 Apr 2013 06:21:50 -0700
Subject: Re: [hp8924] Let Some Smoke Out

Hi Mike,

Yes, I was headed toward that neighborhood. The unit is built like a battleship and dis-assembly is very straightforward. I have done a fair amount of SM work. I appreciate the info on relevant documentation. Before I button it up, I'll introduce it to my air compressor (I can't believe how filthy these things get). I'll give this a day's effort. After that, I'll box it up & send to Amtronix.

Thanks again for the info.

Rod
N8RAT

From: "mwbesemer@...t" <mwbesemer@...>

To: hp8924@yahoogroups.com
Sent: Thursday, April 18, 2013 7:43 AM
Subject: RE: [hp8924] Let Some Smoke Out

Rod,
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It's a bit of a bugger to get to and it's full of SMD components. You CAN troubleshoot and repair it; many of the parts are available at Mouser - it just takes a little more diligence to work on the SMD stuff if you're not used to doing it.
The Internet will lead you to an HP-8920B
Assembly Level Repair Manual, an HP-8920A-B and 8921A Test Set Assembly Level Repair 08920-90168, and an HP-8920 Component Level Information Packet. These will all be useful for the -8924 RF Input Assembly.
Good luck.
MikeWM4B

On Wed, Apr 17, 2013 at 9:05 PM, n8rat wrote:
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looked at a few minutes before and the insertion loss shows to be about 3 dB more than before even
after I normalized the settings. Any ideas what might have been zorched?
Thanks!
Rod N8RAT

# 1510. Re: [hp8924] Let Some Smoke Out

Yahoo group: hp8924
Date: 2013-04-18 13:49:36 UTC
From: mwbesemer@...
Topic: 1506  Message: 1510
Attachments: 2 described; binary payloads are missing from this source WARC

[ Attachment content not displayed ]

# 1511. Re: [hp8924] Let Some Smoke Out

Yahoo group: hp8924
Date: 2013-04-18 13:52:39 UTC
From: Rodney Rockwell
Topic: 1506 Message: 1511

Great idea. I have a Motorola R1200 that I should be able to use for that.

Thank-you!

Rod
N8RAT

---
From: "mwbesemer@..." <mwbesemer@...>
To: hp8924@yahoogroups.com
Sent: Thursday, April 18, 2013 9:49 AM
Subject: Re: [hp8924] Let Some Smoke Out

Rod,

If you've done SMD work, you have a good chance of fixing it. One advantage I had was a 2nd service monitor. I injected a signal and traced it through the input assembly with a the spectrum analyzer on the other service monitor; pretty easy to see where things went South from there.

73,

Mike
WM4B

On Thu, Apr 18, 2013 at 9:21 AM, Rodney Rockwell wrote:

Hi Mike,

Yes, I was headed toward that neighborhood. The unit is built like a battleship and dis-assembly is very straightforward. I have done a fair amount of SM work. I appreciate the info on relevant documentation. Before I button it up, I'll introduce it to my air compressor (I can't believe how filthy these things get). I'll give this a day's effort. After that, I'll box it up & send to Amtronix.

Thanks again for the info.

Rod
N8RAT

---

From: "mwbesemer@..." <mwbesemer@...>
To: hp8924@yahoogroups.com
Sent: Thursday, April 18, 2013 7:43 AM
Subject: RE: [hp8924] Let Some Smoke Out

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Good luck.

Mike
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On Wed, Apr 17, 2013 at 9:05 PM, n8rat wrote:

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Thanks!

Rod
N8RAT

# 1512. Re: [hp8924] Let Some Smoke Out

Yahoo group: hp8924
Date: 2013-04-18 13:54:19 UTC
From: Rodney Rockwell
Topic: 1506  Message: 1512

Sounds like a good plan B.

Plan C will be to send to Amtronix.

Thanks!

Rod
N8RAT

---
From: Brian Swann <n1bs@hotmail.com>
To: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
Sent: Thursday, April 18, 2013 9:38 AM
Subject: RE: [hp8924] Let Some Smoke Out

If you can determine which module is bad, Amtronix might also be able to sell you a refurb module, or exchange one. That would save you the considerable expense of shipping the whole unit. It would be worth a call or email to Rick.

Brian
n1bs

---
To: hp8924@yahoogroups.com
From: n8rat@...
Date: Thu, 18 Apr 2013 06:21:50 -0700
Subject: Re: [hp8924] Let Some Smoke Out

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N8RAT

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Thanks!

Rod
N8RAT

# 1513. Re: Replacing video pots?

Yahoo group: hp8924
Date: 2013-04-20 02:58:26 UTC
From: wb6dgn_tom@att.net
Topic: 1492  Message: 1513

A progress report on my 8924 video problem.
I finally got time to remove the cover and look things over. First thing I noticed is that the interior of the monitor was just loaded with thin, powdery, sticky dust (what does that say about my housekeeping?).
That lead me to the pots on the display which I had somewhat discounted before. Sure enough; as soon as I put the tool in the brightness pot, before I even tried to turn it, the display stabilized. I turned the monitor off and ran the pot back and forth through its travel about a half dozen times and turned the monitor back on. While I was able to adjust the brightness as Rick at Amtronix had told me to, I found lots of dead spots in its travel so I'm sure it is going to need to be replaced soon. I did order some DeOxit in a needle dispenser to try before I replace the pots but the disappointing thing is that, in order to clean the pots, the display looks as though it has to be removed from the monitor. So, my question is; do I even bother with trying to clean the pots, knowing that I may have to go through the, not so trivial, job of removing the monitor a second time? Kinda reminds me of the old movie line, "Do you feel lucky today...?"!
Anybody with any advice or suggestions, your thoughts are appreciated. That way, if I make the wrong choice, you can share the blame with me!
To be continued.....
Tom

--- In hp8924@yahoogroups.com, "wb6dgn_tom@..." <wb6dgn_tom@...> wrote:
>
>
>
> I'm curious; does anybody know if the capacitor problem is limited to the CRT module or does the problem exist throughout the entire instrument? I think my display is having cap. issues (haven't had time to open it up yet) and wondering if its worth repairing. If capacitors throughout the entire unit need to be replaced, that could involve many hours and get pretty costly just for the caps, especially if I replace them with tantalum equivalents.
> Thinking that it might be better to just cut my losses and scrap the thing out if the problem is too extensive.
> Tom
> --- In hp8924@yahoogroups.com, "c_day_nz" <c.day@> wrote:
> >
> > Another common problem - CRT unit leaky caps = lack of video lock, blurry, shaky, Etc. I'm picking the pots will be fine but the caps will be leaky. Replace them with 105 degree C caps - it gets warm inside an 8924..
> >
> > --- In hp8924@yahoogroups.com, "technicavolous" <bas_tad@> wrote:
> > >
> > > I have shaky and rolling video. Twiddling with the pots in the video board eventually I can get things to stabilize for a while then it happens again.
> > >
> > > I understand this is fairly common.

> > >
> > > Does anyone have a description of what order things should come apart to remove that section and replace the pots? Is it straightforward? I've had the cover off but have been reluctant to go further yet.
> > >
> > > Thanks
> > > Tracy N4LGH
> > >
> >
>

# 1514. Re: Replacing video pots?

Yahoo group: hp8924
Date: 2013-04-21 13:03:24 UTC
From: technicavolous
Topic: 1492  Message: 1514

I *JUST* went though this procedure. It's much easier than it looks at first.

I had purchased my monitor from 'Joon' on EBay, so instead of just replacing the pots he sent me a new video assembly. The tube in the assembly he sent me was way worse than the tube I had, but the board with the pots on it was good so I swapped out the boards with my unit.

Works!

The amazing thins is how easy the front panel really was go get off. After you remove the cover, there are four screws, two on each side of the front assembly to remove it. It will seem 'stuck' as there are very strong copper fingers between the front and the bottom. Pry it off with a large flathead.

Once the front is off there are a few cables to disconnect, some are fairly delicate so be careful with the SMA lines.

After that, there are a handful of little screws holding the glare panel of the display on, they all need to come out. Take the plastic cover and gently lift it forward from the bottom to remove it and expose the screws. Then there are a few more larger ones (four) that hold the major weight.

Once these are our you can slide the display assembly off of the front panel.

The top of the display cage comes off and the boards have two screws each on top and slide into grooves in the cage. The whole assembly is easy to remove, then you can get to the pots and replace them.

I did use cleaner / lube on the replacement boards pots before I put them in, I was actually worried I was just putting in another problem board but when I put it back together and fired it up it worked first shot, no adjustments necessary.

The one thing you have to remember is if you took the inside top covers off you have to put them back on before you power up the unit. There is a note on one of the covers stating the power supply will overheat in 90 seconds if that lid isn't on.

So I'd say make sure you have a fairly large bench to work with, separate and note your screws, and go for it!

Now that I got this going I'm off to connect a VGA monitor and start learning RFTools and IBasic.

Tracy N4LGH

--- In hp8924@yahoogroups.com, "wb6dgn_tom@..." <wb6dgn_tom@...> wrote:
>
>
>

> A progress report on my 8924 video problem.
> I finally got time to remove the cover and look things over. First thing I noticed is that the interior of the monitor was just loaded with thin, powdery, sticky dust (what does that say about my housekeeping?).
> That lead me to the pots on the display which I had somewhat discounted before. Sure enough; as soon as I put the tool in the brightness pot, before I even tried to turn it, the display stabilized. I turned the monitor off and ran the pot back and forth through its travel about a half dozen times and turned the monitor back on. While I was able to adjust the brightness as Rick at Amtronix had told me to, I found lots of dead spots in its travel so I'm sure it is going to need to be replaced soon. I did order some DeOxit in a needle dispenser to try before I replace the pots but the disappointing thing is that, in order to clean the pots, the display looks as though it has to be removed from the monitor. So, my question is; do I even bother with trying to clean the pots, knowing that I may have to go through the, not so trivial, job of removing the monitor a second time? Kinda reminds me of the old movie line, "Do you feel lucky today...?"!
> Anybody with any advice or suggestions, your thoughts are appreciated. That way, if I make the wrong choice, you can share the blame with me!
> To be continued.....
> Tom
>
> --- In hp8924@yahoogroups.com, "wb6dgn_tom@" <wb6dgn_tom@> wrote:
> >
> >
> >
> > I'm curious; does anybody know if the capacitor problem is limited to the CRT module or does the problem exist throughout the entire instrument? I think my display is having cap. issues (haven't had time to open it up yet) and wondering if its worth repairing. If capacitors throughout the entire unit need to be replaced, that could involve many hours and get pretty costly just for the caps, especially if I replace them with tantalum equivalents.
> > Thinking that it might be better to just cut my losses and scrap the thing out if the problem is too extensive.
> > Tom
> > --- In hp8924@yahoogroups.com, "c_day_nz" <c.day@> wrote:
> > >
> > > Another common problem - CRT unit leaky caps = lack of video lock, blurry, shaky, Etc. I'm picking the pots will be fine but the caps will be leaky. Replace them with 105 degree C caps - it gets warm inside an 8924..
> > >
> > > --- In hp8924@yahoogroups.com, "technicavolous" <bas_tad@> wrote:
> > > >
> > > > I have shaky and rolling video. Twiddling with the pots in the video board eventually I can get things to stabilize for a while then it happens again.
> > > >
> > > > I understand this is fairly common.
> > > >
> > > > Does anyone have a description of what order things should come apart to remove that section and replace the pots? Is it straightforward? I've had the cover off but have been reluctant to go further yet.
> > > >

> > > > Thanks
> > > > Tracy N4LGH
> > > >
> > >
> >
>

# 1515. Re: [hp8924] Re: Replacing video pots?

Yahoo group: hp8924
Date: 2013-04-21 14:43:19 UTC
From: Frederick Bray
Topic: 1492  Message: 1515

For those removing the front panel, you may find that the copper finger stock is in bad shape and tears up. I had this problem a couple years ago and decided to replace it. I bought the replacement from Fair Radio Sales. It even had the adhesive on it to hold it in place. I just checked and they still have it. Part number is 97-555-02

Well worth the $8 if yours is in bad shape.

# 1516. Re: Replacing video pots?

Yahoo group: hp8924
Date: 2013-05-04 04:23:05 UTC
From: wb6dgn_tom@att.net
Topic: 1492  Message: 1516

Thanks, Fred, for the heads-up. Since you've been through it, do you have any suggestion for a way to minimize the damage when removing the panel? I haven't gotten around to doing that yet but whatever you can offer would be appreciated. Also, is there an item number or part number for the replacement finger stock? Think it would be worth keeping that "in stock"
Tom

--- In hp8924@yahoogroups.com, Frederick Bray <fwbray@...> wrote:
>
> For those removing the front panel, you may find that the copper finger
> stock is in bad shape and tears up. I had this problem a couple years
> ago and decided to replace it. I bought the replacement from Fair Radio
> Sales. It even had the adhesive on it to hold it in place. I just
> checked and they still have it. Part number is 97-555-02
>
> Well worth the $8 if yours is in bad shape.
>

# 1517. HP 8935 Power Supply Issues

Yahoo group: hp8924
Date: 2013-05-19 14:52:21 UTC
From: radioman762
Topic: 1517  Message: 1517

After working fine last night, my 8935 refuses to power-up this morning. I assume that it is the classic power supply problem.

My question is whether the 8935 uses the same power supply as the 8924. I have a spare working 8924 supply that I could drop in.

I admit that I haven't gone to the manuals yet, but if someone already knows the answer it would save me a lot of time.

Thanks.

F.W.B

# 1518. Re: [hp8924] HP 8935 Power Supply Issues

Yahoo group: hp8924
Date: 2013-05-19 22:49:12 UTC
From: Frederick Bray
Topic: 1517  Message: 1518

To answer my own question, the two supplies are not the same.

On 5/19/2013 7:52 AM, radioman762 wrote:
> After working fine last night, my 8935 refuses to power-up this morning. I assume that it is the classic power supply problem.
>
> My question is whether the 8935 uses the same power supply as the 8924. I have a spare working 8924 supply that I could drop in.
>
> I admit that I haven't gone to the manuals yet, but if someone already knows the answer it would save me a lot of time.
>
> Thanks.
>
> F.W.B
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

# 1519. Re: [hp8924] HP 8935 Power Supply Issues

Yahoo group: hp8924
Date: 2013-05-20 00:44:13 UTC
From: Geoff James
Topic: 1517  Message: 1519

I have an 8935 also with a Power Supply Issue, ( see my post No.1500 )
and photo Power supply PCB in photo section,

When you pull the PSU out, I'd be grateful if you can identify that component for me,

thanks

Geoff

there is one MOSFET that I would like to know what the original component is, I have

From: Frederick Bray
Sent: Monday, May 20, 2013 8:19 AM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] HP 8935 Power Supply Issues

To answer my own question, the two supplies are not the same.

On 5/19/2013 7:52 AM, radioman762 wrote:
> After working fine last night, my 8935 refuses to power-up this morning. I assume that it is the classic power supply problem.
>
> My question is whether the 8935 uses the same power supply as the 8924. I have a spare working 8924 supply that I could drop in.
>
> I admit that I haven't gone to the manuals yet, but if someone already knows the answer it would save me a lot of time.
>
> Thanks.
>
> F.W.B
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

# 1520. HP8924 Owners in Washington DC Metro - Looking for help

Yahoo group: hp8924
Date: 2013-05-23 00:37:23 UTC
From: Michael Dye
Topic: 1520  Message: 1520

Looking for someone in the Washington DC Metro area with a HP8924 that would be willing to help out with tuning a UHF Duplexer and Kenwood TKR-850.

Barring anyone local actually having one, I am looking to purchase one from Amtronix but would appreciate any help in getting going. I'm sure it's going to be a steep learning curve.

Any help would be much appreciated..

Thanks, hope to start picking up some good info here..

-Mike

# 1521. Re: [hp8924] HP8924 Owners in Washington DC Metro - Looking for help

Yahoo group: hp8924
Date: 2013-05-23 02:19:57 UTC
From: Pedro Castillo
Topic: 1520  Message: 1521

Mike,

I purchased my HP8924C from Rick@Amtronix and I am totally satisfied, you cannot go wrong with him. I have had mine for about two months now and what I have done is focus on specific tasks at a time, right now I have managed to tune VHF/UHF duplexers and even a two channel UHF combiner ( you have to look at Brian Swann videos on YouTube to get a real idea of what to do http://www.youtube.com/user/n1bsbri ) one BIG piece of advise: Invest the money in the Return Loss Bridge from Rick if you are serious about tuning duplexers the right way. My next task is tuning the Kenwood TKR-850 repeater, you are right about these units having a steep learning curve but is not impossible buddy. Wish you the best, good luck.

Pete..

---
From: Michael Dye <mike@...>
To: hp8924@yahoogroups.com
Sent: Wednesday, May 22, 2013 6:37 PM
Subject: [hp8924] HP8924 Owners in Washington DC Metro - Looking for help

Looking for someone in the Washington DC Metro area with a HP8924 that would be willing to help out with tuning a UHF Duplexer and Kenwood TKR-850.

Barring anyone local actually having one, I am looking to purchase one from Amtronix but would appreciate any help in getting going. I'm sure it's going to be a steep learning curve.

Any help would be much appreciated..

Thanks, hope to start picking up some good info here..

-Mike

# 1522. Re: [hp8924] HP8924 Owners in Washington DC Metro - Looking for help

Yahoo group: hp8924
Date: 2013-05-23 02:44:30 UTC
From: Pedro Castillo
Topic: 1520  Message: 1522

Mike,

I use my repeaters for commercial use only (no ham service)
one thing I can tell you though is that the TKR-850 repeater has to be
tuned or at least checked out with a proper service monitor like the
HP8924C ( take a good look at the service manual page 42 under
"Adjustment" so you can have an idea of what needs to be done on it
http://www.repeater-builder.com/kenwood/pdfs/tkr-850revised.pdf ) as far
as the duplexer you are getting  if it is something "inside" the
repeater is probably a "notch only" duplexer and that is real easy to
tune using the HP8924C. You may have to send the whole system to be
tuned by a professional so you can get 100% out of the system. I am in
Central America so I cannot help you directly, sorry. I cannot recommend
anybody directly but I have emailed in the past with "The TKR Guy" in
the past and he has been helpful http://www.thetkrguy.com/ even though
he works on the older TKR-820 repeaters maybe he can point you in the
right direction. Good luck.

 Pete..

---
From: Michael Dye <mike@...>
To: Pedro Castillo <hr2pac@...>
Sent: Wednesday, May 22, 2013 8:25 PM
Subject: Re: [hp8924] HP8924 Owners in Washington DC Metro - Looking for help

Pedro,

Are you using your TKR-850 as a repeater in 70cm ham band?  Is it really necessary to
re-tune it?  I'm hearing back and forth, some say it's fine out of the box (Type 1
450-480mhz model), others are saying to tune it.

Was the duplexer you tuned part of the TKR-850?  Mine has a internal duplexer, I haven't
seen it in person yet - Should here Friday, but I'm hoping it's pretty straight forward to
tune.

So far I have been unable to find anyone local that has a HP8924C, or anything even close
to it to tune the duplexer and radio (if it indeed does need to be tuned, hearing
conflicting information so far).  Just not looking forward to that huge cost just to setup
a local d-star repeater. :(

-Mike

On May 22, 2013, at 10:19 PM, Pedro Castillo <hr2pac@...> wrote:

>
>

>Mike,
>
>I purchased my HP8924C from Rick@Amtronix and I am totally satisfied, you cannot go wrong with him. I have had mine for about two months now and what I have done is focus on specific tasks at a time, right now I have managed to tune VHF/UHF duplexers and even a two channel UHF combiner ( you have to look at Brian Swann videos on YouTube to get a real idea of what to do http://www.youtube.com/user/n1bsbri ) one BIG piece of advise: Invest the money in the Return Loss Bridge from Rick if you are serious about tuning duplexers the right way. My next task is tuning the Kenwood TKR-850 repeater, you are right about these units having a steep learning curve but is not impossible buddy. Wish you the best, good luck.
>
>Pete..
>
>
>______
> From: Michael Dye <mike@...>
>To: hp8924@yahoogroups.com
>Sent: Wednesday, May 22, 2013 6:37 PM
>Subject: [hp8924] HP8924 Owners in Washington DC Metro - Looking for help
>
>
>
>
>Looking for someone in the Washington DC Metro area with a HP8924 that would be willing to help out with tuning a UHF Duplexer and Kenwood TKR-850.
>
>Barring anyone local actually having one, I am looking to purchase one from Amtronix but would appreciate any help in getting going. I'm sure it's going to be a steep learning curve.
>
>Any help would be much appreciated..
>
>Thanks, hope to start picking up some good info here..
>
>-Mike
>
>
>
>
>

# 1523. 8924c

Yahoo group: hp8924
Date: 2013-05-25 21:28:10 UTC
From: wb7dmx@att.net
Topic: 1523  Message: 1523

can some body give me the dimensions of this unit.

I want to be sure it will fit on my bench.

# 1524. Re: [hp8924] 8924c

Yahoo group: hp8924
Date: 2013-05-25 22:01:43 UTC
From: Ralph Mowery
Topic: 1523  Message: 1524

The 8924c is 7 inches high, 17 einches Wide and 25 inches long if  you count the two back legs that should be on it.  You will allow some room at the back as that  is where the poewr cord comes out, but if you have one of the right angle ones, you can run  it that way.  The heigth is not counting any legs that may or may not come with it.  Mine does not have any on the bottom.

Also at the back are some BNC connectors that I doubt you will use.  There is a connector that looks like a telephone or rj 45 but it is 6 pins if I remember correctly that you can hook up a computer to do a screen print.  Also is the DC current jacks to measure 10 amps DC if you want to.

It weighs one ton..  Atleast that is what you will think...Actually around 60 to 65 pounds.

I bought a Craftsman tool box to put mine on.  Payed just over $ 100 and has severl draws.
Also put a couple of boards  at the front to  angle the display up.
The 8924C just fits on that tool box.  They do have a smaller box that it will not fit on.

Plan on spending a lot of time to learn how to use it.  It is not that difficult, but it does so much.  The manual for it is almost worthless.  Look for the 8920 manual.  While the buttons are in differant places and may be labled differant, the screen displays look almost the same.  Just play a lot with it and push the buttons.  Except for putting too much power into it, it is doubtful that you will do anything to hirt it.
There are some good you tube vidios that are for an E8285 or something like that.  The buttons are in diffreant places, but the screen shots are similar and will give you a good feel of some of what it will do.

Also go here for some info.
http://www.amtronix.com/hp8924c60.htm

>_____
>From: "wb7dmx@..." <shop2wb7dmx@hotmail.com>
>To: hp8924@yahoogroups.com
>Sent: Saturday, May 25, 2013 5:28 PM
>Subject: [hp8924] 8924c
>
>
>can some body give me the dimensions of this unit.
>
>I want to be sure it will fit on my bench.
>
>
>

# 1525. Re: 8924c

Yahoo group: hp8924
Date: 2013-05-26 00:14:24 UTC
From: wb7dmx@att.net
Topic: 1523  Message: 1525

--- In hp8924@yahoogroups.com, Ralph Mowery <ku4pt@...> wrote:
>
> The 8924c is 7 inches high, 17 einches Wide and 25 inches long if  you count the two back legs that should be on it.  You will allow some room at the back as that  is where the poewr cord comes out, but if you have one of the right angle ones, you can run  it that way.  The heigth is not counting any legs that may or may not come with it.  Mine does not have any on the bottom.
>
> Also at the back are some BNC connectors that I doubt you will use.  There is a connector that looks like a telephone or rj 45 but it is 6 pins if I remember correctly that you can hook up a computer to do a screen print.  Also is the DC current jacks to measure 10 amps DC if you want to.
>
> It weighs one ton..  Atleast that is what you will think...Actually around 60 to 65 pounds.
>
> I bought a Craftsman tool box to put mine on.  Payed just over $ 100 and has severl draws.
> Also put a couple of boards  at the front to  angle the display up.
> The 8924C just fits on that tool box.  They do have a smaller box that it will not fit on.
>
> Plan on spending a lot of time to learn how to use it.  It is not that difficult, but it does so much.  The manual for it is almost worthless.  Look for the 8920 manual.  While the buttons are in differant places and may be labled differant, the screen displays look almost the same.  Just play a lot with it and push the buttons.  Except for putting too much power into it, it is doubtful that you will do anything to hirt it.
> There are some good you tube vidios that are for an E8285 or something like that.  The buttons are in diffreant places, but the screen shots are similar and will give you a good feel of some of what it will do.
>
> Also go here for some info.
> http://www.amtronix.com/hp8924c60.htm
>
>

excellent, it will fit fine, I have been studying the manual on here and it looks like it will do everything I might want to use it for in my shack, all I have to do now is save up enough money to buy one, hope they is one left for me,
I am a experimenter, and like to build different test gear, and play with antennas, also do some repair on equipment with other hams.

# 1526. CRT

Yahoo group: hp8924
Date: 2013-05-26 02:08:30 UTC
From: wb7dmx@att.net
Topic: 1526  Message: 1526

I have seen some add's on ebay where some of the Hp 8924c may have some burn in, is there a source for a new crt tube for them ?

bob
WB7DMX

# 1527. Re: [hp8924] 8924c

Yahoo group: hp8924
Date: 2013-05-26 14:41:14 UTC
From: Tony Brignole
Topic: 1523  Message: 1527

I have a used audio visual cart with power strip and two shelves that I bought at local school board auction. It moves freely and cost about $10. It is rectangular and 8924C sits on top with laser printer on bottom shelf and adapter/cables/connectors etc on mid shelf. I have seen these at other local school board auctions for as little as $5 and as much as $25. I took 20 of them to Huntsville hamfest 4 years ago and could not get them unloaded fast enough for $30 each.

----- Original Message -----
From: Ralph Mowery
To: hp8924@yahoogroups.com
Sent: Saturday, May 25, 2013 5:01 PM
Subject: Re: [hp8924] 8924c

The 8924c is 7 inches high, 17 einches Wide and 25 inches long if you count the two back legs that should be on it. You will allow some room at the back as that is where the poewr cord comes out, but if you have one of the right angle ones, you can run it that way. The heigth is not counting any legs that may or may not come with it. Mine does not have any on the bottom.

Also at the back are some BNC connectors that I doubt you will use. There is a connector that looks like a telephone or rj 45 but it is 6 pins if I remember correctly that you can hook up a computer to do a screen print. Also is the DC current jacks to measure 10 amps DC if you want to.

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The 8924C just fits on that tool box. They do have a smaller box that it will not fit on.

Plan on spending a lot of time to learn how to use it. It is not that difficult, but it does so much. The manual for it is almost worthless. Look for the 8920 manual. While the buttons are in differant places and may be labled differant, the screen displays look almost the same. Just play a lot with it and push the buttons. Except for putting too much power into it, it is doubtful that you will do anything to hirt it.
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Also go here for some info.
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From: "wb7dmx@..." <shop2wb7dmx@...>
To: hp8924@...m
Sent: Saturday, May 25, 2013 5:28 PM
Subject: [hp8924] 8924c

can some body give me the dimensions of this unit.

I want to be sure it will fit on my bench.

# 1528. RE: [hp8924] 8924c

Yahoo group: hp8924
Date: 2013-05-26 14:46:21 UTC
From: Mike (WM4B)
Topic: 1523  Message: 1528

I use a wooden microwave cart for mine. It rolls easily, has a small drawer, a door with a couple of shelves behind it and some external shelves. I fastened a power strip to it to power the -8924 and the laptop computer that sits on top of it. On the opposite end I attached a cable rack for some of my shorter test cables. There is enough room behind the instrument for a fishing lure box full of adapters.

Plenty of possibilities, but no matter what you□ve just about got to get the -8924 off your bench and on to some kind of cart!

73,

Mike
WM4B

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Tony Brignole
Sent: Sunday, May 26, 2013 10:41 AM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] 8924c

I have a used audio visual cart with power strip and two shelves that I bought at local school board auction. It moves freely and cost about $10. It is rectangular and 8924C sits on top with laser printer on bottom shelf and adapter/cables/connectors etc on mid shelf. I have seen these at other local school board auctions for as little as $5 and as much as $25. I took 20 of them to Huntsville hamfest 4 years ago and could not get them unloaded fast enough for $30 each.

----- Original Message -----
From: Ralph Mowery
To: hp8924@yahoogroups.com
Sent: Saturday, May 25, 2013 5:01 PM
Subject: Re: [hp8924] 8924c

The 8924c is 7 inches high, 17 einches Wide and 25 inches long if  you count the two back legs that should be on it.  You will allow some room at the back as that  is where the poewr cord comes out, but if you have one of the right angle ones, you can run  it that way.  The heigth is not counting any legs that may or may not come with it.  Mine does not have any on the bottom.

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There are some good you tube vidios that are for an E8285 or something like that.  The buttons are in diffreant places, but the screen shots are similar and will give you a good feel of some of what it will do.

Also go here for some info.
http://www.amtronix.com/hp8924c60.htm

From: "wb7dmx@..." <shop2wb7dmx@...>
To: hp8924@yahoogroups.com
Sent: Saturday, May 25, 2013 5:28 PM
Subject: [hp8924] 8924c

can some body give me the dimensions of this unit.

I want to be sure it will fit on my bench.

# 1529. Re: CRT

Yahoo group: hp8924
Date: 2013-05-26 16:22:18 UTC
From: nolimit3o3
Topic: 1526  Message: 1529

You can find them on eBay, but i'd recommend Rick from Amtronix before you go the eBay route :)

David

--- In hp8924@yahoogroups.com, "wb7dmx@..." <shop2wb7dmx@...> wrote:
>
> I have seen some add's on ebay where some of the Hp 8924c may have some burn in, is there a source for a new crt tube for them ?
>
> bob
> WB7DMX
>

# 1530. Re: [hp8924] 8924c

Yahoo group: hp8924
Date: 2013-05-26 19:22:15 UTC
From: Ralph Mowery
Topic: 1523  Message: 1530

There have been several good ideas for a cart.  Unless you plan on just using it in one spot only , a cart of some kind is the way to go.  At 60 pounds you are not going to want to move it around very much by hand.

I just use mine for hobby.  My ham shack is in the basement.  It is on one side and the work bench is on the other side.  Not enough room on the bench for it anyway, but even if it was, I would not want to carry it from one place to the other.

I do carry it to a repeater , but it is lucky the repeater is in a 6 foot by 6 foot building on the ground so I do not have to carry it up any steps.  The basement is a walk out without any steps also.

The scope on mine does have some burn in, but not too bad to look at when it is in use.  If I was worried about the burn in, I may be tempted to get one of the vidio adapters and an external monitor that is larger.

I don't know from doing, but I have heard it is much easier to replace the whole scope assembly than it is just the tube and from what  I have read ,the prices is not that much differant.

There used to be a lot of the 8924c on ebay but the other day when I looked there did not seem to be very many , especially under $ 1000.  I forgot what I payed for mine.  It had a 3 watt input limit.  Someone was selling a 60 watt with a 100 watt limit for 10 seconds upgrade and I bought that.  Even then I had less than $ 1000 in mine.  Took a while to install it as there  are lots of screws holding the thing together. I used a cordless drill to remove and start the  screws back in.

>_____
>From: Mike (WM4B) <mwbesemer@...>
>To: hp8924@yahoogroups.com
>Sent: Sunday, May 26, 2013 10:46 AM
>Subject: RE: [hp8924] 8924c
>
>
>I use a wooden microwave cart for mine.  It rolls easily, has a small
>drawer, a door with a couple of shelves behind it and some external shelves.
>I fastened a power strip to it to power the -8924 and the laptop computer
>that sits on top of it.  On the opposite end I attached a cable rack for
>some of my shorter test cables.  There is enough room behind the instrument
>for a fishing lure box full of adapters.
>
>Plenty of possibilities, but no matter what you’ve just about got to get the
>-8924 off your bench and on to some kind of cart!
>
>73,
>

>Mike
>WM4B
>
>

# 1532. Re: 8924C Firmware Upgrade to A.08.04 kit for sale

Yahoo group: hp8924
Date: 2013-05-31 12:26:42 UTC
From: kernkampj
Topic: 1531  Message: 1532

Doug -

What are the advantages of an upgrade?

Thanks!
JohnK
==========

--- In hp8924@yahoogroups.com, "Doug" <doug@...> wrote:
>
> I bought this kit to update my 8924c to v A.08.04 and I don't need it further. It consists of 2 pcmcia cards with a new firmware image stored on them.
>
> (Very simple) instructions are here: http://f1.grp.yahoofs.com/v1/HFSnUUzuQXTuGCDZeP9P6h8O6Ppn5WPXtWR2JLyL_NfX87BNcYWQThbNCPrcAKrOT5l4GyVxZsRObjqMl6YxuZJ8nZxjAIxpHw/HP8924_Upgrade.jpg
>
> The kit is yours for $105 including shipping. Please contact me directly at doug@...
>
> Doug
>

# 1533. Re: 8924C Firmware Upgrade to A.08.04 kit for sale --> SOLD

Yahoo group: hp8924
Date: 2013-05-31 15:17:12 UTC
From: Doug
Topic: 1531  Message: 1533

I don't know the details of the upgrade. I didn't find any release notes.
My 8924 was at v 6.x and didn't match some of the instructions I was trying to follow (they were labeled as being for v 7.x or later), so I thought this would solve that. After updating to v a.08.04, the analyzer STILL doesn't match the instructions. HA!.
But it's done. I'm selling for the same price I paid on ebay for this.

By the way - this set of cards is already sold.
Doug

# 1534. Re: 8924C Firmware Upgrade to A.08.04 kit for sale --> SOLD

Yahoo group: hp8924
Date: 2013-06-02 23:36:55 UTC
From: William
Topic: 1531  Message: 1534

I hope it can stay in the group and go to the people who need to update their firmware

--- In hp8924@yahoogroups.com, "Doug" <doug@...> wrote:
>
> I don't know the details of the upgrade. I didn't find any release notes.
> My 8924 was at v 6.x and didn't match some of the instructions I was trying to follow (they were labeled as being for v 7.x or later), so I thought this would solve that. After updating to v a.08.04, the analyzer STILL doesn't match the instructions. HA!.
> But it's done. I'm selling for the same price I paid on ebay for this.
>
> By the way - this set of cards is already sold.
> Doug
>

# 1535. Re: 8924C Firmware Upgrade to A.08.04 kit for sale --> SOLD

Yahoo group: hp8924
Date: 2013-06-03 04:54:13 UTC
From: wb6dgn_tom@att.net
Topic: 1531  Message: 1535

OH! Were you going to buy it and donate it to the group? DARN! Too bad its already sold. That was a real nice gesture, though! 'Course, whoever wrote that upgrade might have other ideas about making it "freewear" without their permission. DARN DETAILS!
Tom

--- In hp8924@yahoogroups.com, "William" <willard561@...> wrote:
>
> I hope it can stay in the group and go to the people who need to update their firmware
>
>
> --- In hp8924@yahoogroups.com, "Doug" <doug@> wrote:
> >
> > I don't know the details of the upgrade. I didn't find any release notes.
> > My 8924 was at v 6.x and didn't match some of the instructions I was trying to follow (they were labeled as being for v 7.x or later), so I thought this would solve that. After updating to v a.08.04, the analyzer STILL doesn't match the instructions. HA!.
> > But it's done. I'm selling for the same price I paid on ebay for this.
> >
> > By the way - this set of cards is already sold.
> > Doug
> >
>

# 1536. Re: 8924C Firmware Upgrade to A.08.04 kit for sale --> SOLD

Yahoo group: hp8924
Date: 2013-06-03 18:03:57 UTC
From: robert8rpi
Topic: 1531 Message: 1536

Hi Tom,
Thats slightly cynical. Actually Agilent (HP) have a progrssive attitude to sharing manuals and software for instruments that are no longer supported by them. An earlier version of the firmware is in the files section already. It's not as if the firmware is of use on any other equipment.

Robert G8RPI.

--- In hp8924@yahoogroups.com, "wb6dgn_tom@..." <wb6dgn_tom@...> wrote:
>
>
>
> OH! Were you going to buy it and donate it to the group? DARN! Too bad its already sold. That was a real nice gesture, though! 'Course, whoever wrote that upgrade might have other ideas about making it "freewear" without their permission. DARN DETAILS!
> Tom
>
> --- In hp8924@yahoogroups.com, "William" <willard561@> wrote:
> >
> > I hope it can stay in the group and go to the people who need to update their firmware
> >
> >
> > --- In hp8924@yahoogroups.com, "Doug" <doug@> wrote:
> > >
> > > I don't know the details of the upgrade. I didn't find any release notes.
> > > My 8924 was at v 6.x and didn't match some of the instructions I was trying to follow (they were labeled as being for v 7.x or later), so I thought this would solve that. After updating to v a.08.04, the analyzer STILL doesn't match the instructions. HA!.
> > > But it's done. I'm selling for the same price I paid on ebay for this.
> > >
> > > By the way - this set of cards is already sold.
> > > Doug
> > >
> >
>

# 1537. Re: 8924C Firmware Upgrade to A.08.04 kit for sale --> SOLD

Yahoo group: hp8924
Date: 2013-06-04 13:14:04 UTC
From: kernkampj
Topic: 1531  Message: 1537

Robert -

Please allow me to apologize for Tom.

He is not typical of the people on this group, most of whom are helpful and appreciative.

JohnK.
==========

--- In hp8924@yahoogroups.com, "robert8rpi" <robert8rpi@...> wrote:
>
> Hi Tom,
> Thats slightly cynical. Actually Agilent (HP) have a progrssive attitude to sharing manuals and software for instruments that are no longer supported by them. An earlier version of the firmware is in the files section already. It's not as if the firmware is of use on any other equipment.
>
> Robert G8RPI.
>

# 1539. Re: [hp8924] Re: 8924C Firmware Upgrade to A.08.04 kit for sale --> SOLD

Yahoo group: hp8924
Date: 2013-06-05 07:22:34 UTC
From: Robert Atkinson
Topic: 1531  Message: 1539

Hi John,
Thank you for your thoughts. I have no problem with Tom (we have emailed directly about this). My main reason for sending the message was to highlight that Agilent don't have a problem with sharing updates for unsupported equipment.

Regards,
Robert G8RPI.

---
From: kernkampj <kernkampj@...>
To: hp8924@yahoogroups.com
Sent: Tuesday, 4 June 2013, 14:14
Subject: [hp8924] Re: 8924C Firmware Upgrade to A.08.04 kit for sale --> SOLD

Robert -

Please allow me to apologize for Tom.

He is not typical of the people on this group, most of whom are helpful and appreciative.

JohnK.
==========

--- In mailto:hp8924%40yahoogroups.com, "robert8rpi" <robert8rpi@...> wrote:
>
> Hi Tom,
> Thats slightly cynical. Actually Agilent (HP) have a progrssive attitude to sharing manuals and software for instruments that are no longer supported by them. An earlier version of the firmware is in the files section already. It's not as if the firmware is of use on any other equipment.
>
> Robert G8RPI.
>

# 1540. HP 11807E Opt. 100 on Agilent 8935

Yahoo group: hp8924
Date: 2013-06-05 07:31:39 UTC
From: Adam Farson
Topic: 1531  Message: 1540

Hi Robert,

I have an Agilent 8935 E6380A with 2002 firmware, and an HP 11807E Opt. 100 card. I have found that the only program on the card which will run in the 8935 without crashing is Save/Recall Registers. The other programs all crash with string errors.

Do you know of any "tricks" for starting these programs correctly on the 8935?

73, Adam VA7OJ/AB4OJ

# 1542. Re: [hp8924] HP 11807E Opt. 100 on Agilent 8935

Yahoo group: hp8924
Date: 2013-06-05 15:40:20 UTC
From: Ralph Mowery
Topic: 1531  Message: 1542

This probably will not help you unless you know how to work with the HP Ibasic.  A while back someone posted the RF Tools Program.  I could not get it to work with an 8924c.  Someone named KLYBALL found out the needed changes to make it work.  You can use Wordpad to edit the files.  Here are the lines that were changed for the 8924c.  You may be able to edit those lines to work with the 8935.  I assume that the program checks for the version of softwear, modle number and some of the options installed in the test set.

A. Make these changes***for Ts_rev$[3])>=08 use the first # of your firmware mines A.08.04***

```
1134 IF Ts_mod$="HP 8924C" OR (VAL(Ts_rev$[3])>=08 AND Cur$="YES") THEN
1397 IF Ts_mod$="HP 8924C" OR VAL(Ts_rev$[3])>=08 THEN
14002 IF Ts_mod$="HP 8924C" OR VAL(Ts_rev$[3])>=08 THEN
```

```
1334 ! IF POS(FNTs_mod$,"8921")<>0 THEN
1335 ! IF POS(I_o$,"TACS")<>0 THEN
1336 ! Flt_1$="CCITT"
1337 ! ELSE
1338 Flt_1$="C MESSAGE"
1339 ! END IF
1340 Flt_2$="6KHZ BPF"
1341 Cur$="YES"
1342 SUBEXIT
1343 ! END IF
1344 IF POS(FNTs_mod$,"8924C")<>0 THEN
```

```
13640 IF FNTs_mod$="HP 8924C" THEN
```

```
13651 IF FNTs_mod$="HP 8924C" THEN
```

```
14027 ! To_ts("*RST")
```

```
14017 ! To_ts("*RST")
```

B. Use the POWERON register

C. Set squelch control on in customize test procedure: Set up frequencies and any othe parameters you need

D. turn on Data collection if you want to get a file (i will upload the manual

E. Run the program

good luck

>_____
>From: Adam Farson <farson@...>
>To: hp8924@yahoogroups.com

>Sent: Wednesday, June 5, 2013 3:31 AM
>Subject: [hp8924] HP 11807E Opt. 100 on Agilent 8935
>
>
>Hi Robert,
>
>I have an Agilent 8935 E6380A with 2002 firmware, and an HP 11807E Opt. 100 card. I have found that the only program on the card which will run in the 8935 without crashing is Save/Recall Registers. The other programs all crash with string errors.
>
>Do you know of any "tricks" for starting these programs correctly on the 8935?
>
>
>73, Adam VA7OJ/AB4OJ
>
>

# 1543. 8922M firmware load

Yahoo group: hp8924
Date: 2013-06-13 23:49:21 UTC
From: aj4ks
Topic: 1543  Message: 1543

Hi! I have an 8922M and would like to remove the 010 option from it. This was discussed on the list last year, and it was revealed that units were converted in the field by rearranging some internal connections and loading "option 010" firmware.

The 8922 repair manual states that most models have ROM chips but for the 8922M, the firmware load is carried out "using an external controller or Personal Computer."

Can anyone reveal to me more details about this process, such as the host and software required, or share the image files with me?

Thanks & Cheers
Ken AJ4KS

# 1544. 8200 conversion, new feet and another 8924c....

Yahoo group: hp8924
Date: 2013-06-20 23:26:16 UTC
From: nolimit3o3
Topic: 1544  Message: 1544

Well i just ordered my 8200 and all the parts i need to modify it and use it on the 8924c. Went with the LM1881 since i dont have a scope on hand, hoping this is the best option lol. Also found a guy on ebay selling WHOLE sets of feet for HP test equipment, looks like they will work on the 8924 as well, so if anyone is looking for some new feet for their units, its ebay item number: 161034074523 it says he only has 2 left right now, but he's relisted these a few times so apparently he has a number of them on hand :) And lastly, if anyone is looking to buy another or need to buy a 8924, Rick from Amtronix has one on ebay right now with new display and refurbished, calibrated and 180 warranty for 1600. I remember a few people awhile back where looking so figured i'd toss that out there :)

Hope everyone has a great weekend!
David

# 1545. HP 8935 Power Supply Problem Solved

Yahoo group: hp8924
Date: 2013-06-26 17:02:26 UTC
From: radioman762
Topic: 1545  Message: 1545

Some weeks ago, I mentioned a problem with my 8935 that seemed to be due to a "dead" power supply.

Today, I finally got time to pull the supply. In the process of removing the covers to get to the supply, I noticed the GFI on the rear panel. I had forgotten that it even existed, and can't recall if I had actually noticed it. As luck would have it, the GFI had tripped. Resetting it solved the problem. Hopefully, tripping was due to some transient cause that will not soon recur.

The GFI is unique to the 8935, at least when compared to the 8924. It is worth checking if you have a 8935 that suddenly fails to turn on. If I had remembered to check it, I would have saved several weeks of instrument downtime.

I'm posting this info in the hope that it will help others. Often, it is the simple things that should be checked first!

# 1546. RE: [hp8924] HP 8935 Power Supply Problem Solved

Yahoo group: hp8924
Date: 2013-06-26 18:01:57 UTC
From: Adam Farson
Topic: 1545  Message: 1546

Thanks for the tip! I also have an 8935.

73, Adam VA7OJ/AB4OJ

-----Original Message-----
From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of radioman762
Sent: 26-Jun-13 10:02
To: hp8924@yahoogroups.com
Subject: [hp8924] HP 8935 Power Supply Problem Solved

Some weeks ago, I mentioned a problem with my 8935 that seemed to be due to a "dead" power supply.

Today, I finally got time to pull the supply. In the process of removing the covers to get to the supply, I noticed the GFI on the rear panel. I had forgotten that it even existed, and can't recall if I had actually noticed it. As luck would have it, the GFI had tripped. Resetting it solved the problem. Hopefully, tripping was due to some transient cause that will not soon recur.

The GFI is unique to the 8935, at least when compared to the 8924. It is worth checking if you have a 8935 that suddenly fails to turn on. If I had remembered to check it, I would have saved several weeks of instrument downtime.

I'm posting this info in the hope that it will help others. Often, it is the simple things that should be checked first!

---

Yahoo! Groups Links

# 1547. New buyer of 8924C

Yahoo group: hp8924
Date: 2013-07-03 18:11:24 UTC
From: orhanavcioglu
Topic: 1547  Message: 1547

Hello fellas I'm new to 8924C. I'm wondering if its possible to test the RX of an analog radio when it has digital tone? I could not find it in rx test or encode menus. I can decode it, when transmitting from a radio but I cannot check receiver sensitivity by encoding and sending it to the radio. I will apreciate any help.

thank you

# 1548. Re: [hp8924] New buyer of 8924C

Yahoo group: hp8924
Date: 2013-07-03 18:22:16 UTC
From: Kevin Faris
Topic: 1547  Message: 1548

Hello,
All you have to do is go to encoder, change mode to select CDCSS, enter your digital code, set "send mode" to continuous, and set AF Gen 2 to 0.6 kHz.

Now use your generate screen to set the rf level, 1k tone, etc.

That is all there is to it.

Good Luck,
Kev
KI0PY
----- Original Message -----
From: orhanavcioglu
To: hp8924@yahoogroups.com
Sent: Wednesday, July 03, 2013 1:11 PM
Subject: [hp8924] New buyer of 8924C

Hello fellas I'm new to 8924C. I'm wondering if its possible to test the RX of an analog radio when it has digital tone? I could not find it in rx test or encode menus. I can decode it, when transmitting from a radio but I cannot check receiver sensitivity by encoding and sending it to the radio. I will apreciate any help.

thank you

# 1549. 8924C with a gbs-8200 converter

Yahoo group: hp8924
Date: 2013-07-10 04:22:06 UTC
From: wb7dmx@att.net
Topic: 1549  Message: 1549

I have ordered my hp8924C and would like to use a gbs-8200 converter to connect a lcd display.

the pictures in the photo section do not show the connections, and I built the sync separator, but then it looks like it should work with out the sync sep.
can somebody please help me with getting this to work.
bob

# 1550. Re: New buyer of 8924C

Yahoo group: hp8924
Date: 2013-07-10 13:12:22 UTC
From: orhanavcioglu
Topic: 1547  Message: 1550

Thank you sir!

--- In hp8924@yahoogroups.com, "Kevin Faris" <kf64358@...> wrote:
>
> Hello,
> All you have to do is go to encoder, change mode to select CDCSS, enter your digital code, set "send mode" to continuous, and set AF Gen 2 to 0.6 kHz.
>
> Now use your generate screen to set the rf level, 1k tone, etc.
>
> That is all there is to it.
>
> Good Luck,
> Kev
> KI0PY
> ----- Original Message -----
> From: orhanavcioglu
> To: hp8924@yahoogroups.com
> Sent: Wednesday, July 03, 2013 1:11 PM
> Subject: [hp8924] New buyer of 8924C
>
>
>
> Hello fellas I'm new to 8924C. I'm wondering if its possible to test the RX of an analog radio when it has digital tone? I could not find it in rx test or encode menus. I can decode it, when transmitting from a radio but I cannot check receiver sensitivity by encoding and sending it to the radio. I will apreciate any help.
>
> thank you
>

# 1551. Re: [hp8924] Re: New buyer of 8924C

Yahoo group: hp8924
Date: 2013-07-10 13:53:46 UTC
From: Kevin Faris
Topic: 1547  Message: 1551

No problems...we run two of these at work plus an 8920 and I have an 8924 at home as well. One of the best service monitors I have ever used. A bit heavy though.
Kev
----- Original Message -----
From: orhanavcioglu
To: hp8924@yahoogroups.com
Sent: Wednesday, July 10, 2013 8:12 AM
Subject: [hp8924] Re: New buyer of 8924C

Thank you sir!

--- In hp8924@yahoogroups.com, "Kevin Faris" <kf64358@...> wrote:
>
> Hello,
> All you have to do is go to encoder, change mode to select CDCSS, enter your digital code, set "send mode" to continuous, and set AF Gen 2 to 0.6 kHz.
>
> Now use your generate screen to set the rf level, 1k tone, etc.
>
> That is all there is to it.
>
> Good Luck,
> Kev
> KI0PY
> ----- Original Message -----
> From: orhanavcioglu
> To: hp8924@yahoogroups.com
> Sent: Wednesday, July 03, 2013 1:11 PM
> Subject: [hp8924] New buyer of 8924C
>
>
>
> Hello fellas I'm new to 8924C. I'm wondering if its possible to test the RX of an analog radio when it has digital tone? I could not find it in rx test or encode menus. I can decode it, when transmitting from a radio but I cannot check receiver sensitivity by encoding and sending it to the radio. I will apreciate any help.
>
> thank you
>

# 1552. Re: [hp8924] 8924C with a gbs-8200 converter

Yahoo group: hp8924
Date: 2013-07-10 16:17:58 UTC
From: Robert Atkinson
Topic: 1549  Message: 1552

Hi Bob,
You have to use the separate RGB / Sync inputs, hence the need for the separator. You just use the green input for a green display or tie all three together for white. There is info on the group about changing resistors for better levels.

Robert G8RPI.

---
From: "wb7dmx@..." <shop2wb7dmx@...>
To: hp8924@yahoogroups.com
Sent: Wednesday, 10 July 2013, 5:22
Subject: [hp8924] 8924C with a gbs-8200 converter

I have ordered my hp8924C and would like to use a gbs-8200 converter to connect a lcd display.

the pictures in the photo section do not show the connections, and I built the sync separator, but then it looks like it should work with out the sync sep.
can somebody please help me with getting this to work.
bob

# 1553. Re: 8924C with a gbs-8200 converter

Yahoo group: hp8924
Date: 2013-07-10 23:01:58 UTC
From: wb7dmx@att.net
Topic: 1549  Message: 1553

ok, I think I get it.
the composite sig from the 8924 goes to the white 5 pin connector just to the left of the pots, and to the pin labeled G for green, and the sync goes to the pin labeled S for sync.
then the five volts supply.
also install the 5 50K resistors,
do I have it correct ?

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Hi Bob,
> You have to use the separate RGB / Sync inputs, hence the need for the separator. You just use the green input for a green display or tie all three together for white. There is info on the group about changing resistors for better levels.
>
> Robert G8RPI.
>
>
>
>
> _____
> From: "wb7dmx@..." <shop2wb7dmx@...>
> To: hp8924@yahoogroups.com
> Sent: Wednesday, 10 July 2013, 5:22
> Subject: [hp8924] 8924C with a gbs-8200 converter
>
>
>
> Â
> I have ordered my hp8924C and would like to use a gbs-8200 converter to connect a lcd display.
>
> the pictures in the photo section do not show the connections, and I built the sync separator, but then it looks like it should work with out the sync sep.
> can somebody please help me with getting this to work.
> bob
>

# 1554. Re: [hp8924] Re: 8924C with a gbs-8200 converter

Yahoo group: hp8924
Date: 2013-07-11 06:33:42 UTC
From: Robert Atkinson
Topic: 1549  Message: 1554

Without going a looking at the manual, yes, that sounds correct.

Robert G8RPI.

---
From: "wb7dmx@..." <shop2wb7dmx@...>
To: hp8924@yahoogroups.com
Sent: Thursday, 11 July 2013, 0:01
Subject: [hp8924] Re: 8924C with a gbs-8200 converter

ok, I think I get it.
the composite sig from the 8924 goes to the white 5 pin connector just to the left of the pots, and to the pin labeled G for green, and the sync goes to the pin labeled S for sync.
then the five volts supply.
also install the 5 50K resistors,
do I have it correct ?

--- In mailto:hp8924%40yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Hi Bob,
> You have to use the separate RGB / Sync inputs, hence the need for the separator. You just use the green input for a green display or tie all three together for white. There is info on the group about changing resistors for better levels.
>
> Robert G8RPI.
>
>
>
>
> ---
> From: "wb7dmx@..." <shop2wb7dmx@...>
> To: mailto:hp8924%40yahoogroups.com
> Sent: Wednesday, 10 July 2013, 5:22
> Subject: [hp8924] 8924C with a gbs-8200 converter
>
>
>
> Â
> I have ordered my hp8924C and would like to use a gbs-8200 converter to connect a lcd display.
>
> the pictures in the photo section do not show the connections, and I built the sync separator, but then it looks like it should work with out the sync sep.
> can somebody please help me with getting this to work.
> bob
>

# 1555. Spectrum Question

Yahoo group: hp8924
Date: 2013-07-11 07:05:21 UTC
From: orhanavcioglu
Topic: 1555  Message: 1555

Hello everyone,

Using the new 8924C I noticed something that I could not reason. In the spectrum analyzer mode, if I give a signal to 442MHz at 0dBm amplitude, shouldn't I observe the marker level at 0dBm at the same frequency? Please check <http://groups.yahoo.com/group/hp8924/photos/album/1593620226/pic/616137\573/view?picmode=&mode=tn&order=ordinal&start=1&count=20&dir=asc> this photo <http://groups.yahoo.com/group/hp8924/photos/album/1593620226/pic/338359\664/view?picmode=&mode=tn&order=ordinal&start=1&count=20&dir=asc> from photos section that I just uploded. However, when my signal level is greater than -20dBm, I can see exactly the value I should. For example, if my signal strenght is -30dBm on the RF Gen, then the level is -30dBm at the marker. But anything below -20dBm is not displayed. You can see some example screen shots in the same album.

For the reference: The output port is RF Out, the input port is Antenna In. They are connected to each other directly via coax cable.Attenuator is on Hold and 0dB.

This makes me wonder what may be going on.. Any ideas?

Thanks!

# 1556. Re: Spectrum Question

Yahoo group: hp8924
Date: 2013-07-11 07:14:28 UTC
From: orhanavcioglu
Topic: 1555  Message: 1556

Quicj correction to my typo: The second line should be: However, when my signal level is WEAKER than -20dBm, I can see exactly the value I should.

# 1557. lcd video for HP 8924c

Yahoo group: hp8924
Date: 2013-07-15 04:46:50 UTC
From: wb7dmx@att.net
Topic: 1557  Message: 1557

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Hi Bob,
> The Lm1881 does not pass the video through. You need to feed the composite video from the 8924C to BOTH the green input of the 8200 and to pin 2 of the LM19881 (via a 0.1uF capacitor) The sync outputs of the LM1881 go to P11 (or P11) Pin 3 of the LM1881 to the V sync input and pin 1 to the H sync input.
> HTH,
> Robert G8RPI.
>
>
> _____
> From: aa1pi <bobcarter@...>
> To: hp8924@yahoogroups.com
> Sent: Tuesday, 11 September 2012, 14:11
> Subject: [hp8924] Re: EXTERNAL VIDIO FOR 8924c
>
> Â
>
>
> --- In mailto:hp8924%40yahoogroups.com, "Don" <donald_s_58103@> wrote

I posted some pictures in the photo section for this topic

# 1558. Re: Spectrum Question

Yahoo group: hp8924
Date: 2013-07-15 23:40:58 UTC
From: Don
Topic: 1555  Message: 1558

I think it is because you have the attenuator on hold. Go into the "auxiliary" screen of the spectrum analyzer and change the attenuator to "auto" instead of "hold" and you should notice the correct signal levels being reported by the 8924C. I was able to reproduce your instrument condition by putting the attenuator on "hold" in my 8924C. Hope this helps.

Don

--- In hp8924@yahoogroups.com, "orhanavcioglu" <orhanavcioglu@...> wrote:
>
> Quicj correction to my typo: The second line should be: However, when my signal level is WEAKER than -20dBm, I can see exactly the value I should.
>

# 1559. 8924c warm up time

Yahoo group: hp8924
Date: 2013-07-16 03:55:19 UTC
From: Ralph Mowery
Topic: 1555  Message: 1559

Does the 8924C require some time after it is pluged in to 'warm up' before the power switch will turn it on ?

I usually leave my 8924c plugged in so the heater part will stay on and warm,but I noticed that when I unplug it for a day or so it may take some time for the power switch to activate it.  The green led visiable from the holes in the back comes on as soon as I plug it in as expected.

As usual the manual on this unit does not mention anything about it that I can find.

# 1560. Re: 8924c warm up time

Yahoo group: hp8924
Date: 2013-07-16 04:48:02 UTC
From: wb6dgn_tom@att.net
Topic: 1555  Message: 1560

Mine doesn't. I leave my equipment unplugged, especially this time of year and, when I plug it in, it responds to the switch immediately. Of course, it takes a little while to come up to temp. but you are aware of that. In summary, it powers up as soon as I plug it in and press the "on" switch.
As I've said before, HP manuals have always been written for the experienced tech. that doesn't really need a manual.
Tom

--- In hp8924@yahoogroups.com, Ralph Mowery <ku4pt@...> wrote:
>
> Does the 8924C require some time after it is pluged in to 'warm up' before the power switch will turn it on ?
>
> I usually leave my 8924c plugged in so the heater part will stay on and warm,but I noticed that when I unplug it for a day or so it may take some time for the power switch to activate it.  The green led visiable from the holes in the back comes on as soon as I plug it in as expected.
>
> As usual the manual on this unit does not mention anything about it that I can find.
>

# 1561. Re: [hp8924] Re: 8924c warm up time

Yahoo group: hp8924
Date: 2013-07-16 05:04:50 UTC
From: Glenn Little WB4UIV
Topic: 1555  Message: 1561

This is an indication of a failing power supply.
There was a discussion some time ago about a capacitor to replace in
the power supply.
IIRC this was an always on 15 Volt supply.
My take on the capacitor situation is that if one is failing replace
them all and keep the instrument working and off of the repair bench.
I have personally seen enough failed electrolytic capacitors that if
I have to replace one, I replace them all.
The cost is not that high and the others will fail soon enough.

There is no known schematic for the power supply.
I am currently reverse engineering the supply.
This is slow going as I have a lot of house maintenance to do.
When I get finished with the schematics, I will make them available
via the group.

73
Glenn
WB4UIV

At 12:48 AM 7/16/2013, you wrote:

>Mine doesn't. I leave my equipment unplugged, especially this time
>of year and, when I plug it in, it responds to the switch
>immediately. Of course, it takes a little while to come up to temp.
>but you are aware of that. In summary, it powers up as soon as I
>plug it in and press the "on" switch.
>As I've said before, HP manuals have always been written for the
>experienced tech. that doesn't really need a manual.
>Tom
>
>--- In hp8924@yahoogroups.com, Ralph Mowery <ku4pt@...> wrote:
> >
> > Does the 8924C require some time after it is pluged in to 'warm
> up' before the power switch will turn it on ?
> >
> > I usually leave my 8924c plugged in so the heater part will stay
> on and warm,but I noticed that when I unplug it for a day or so it
> may take some time for the power switch to activate it. The green
> led visiable from the holes in the back comes on as soon as I plug
> it in as expected.
> >
> > As usual the manual on this unit does not mention anything about
> it that I can find.
> >
>

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>----------
>
>Yahoo! Groups Links
>
>
>

# 1562. Re: 8924c warm up time

Yahoo group: hp8924
Date: 2013-07-16 10:43:52 UTC
From: Don
Topic: 1555  Message: 1562

I second Glenn's response. It is most likely a failing power supply. On one of the units that I had, it exhibited the exact same behavior before the PS finally quit.

Don

--- In hp8924@yahoogroups.com, Glenn Little WB4UIV <glennmaillist@...> wrote:
>
> This is an indication of a failing power supply.
> There was a discussion some time ago about a capacitor to replace in
> the power supply.
> IIRC this was an always on 15 Volt supply.
> My take on the capacitor situation is that if one is failing replace
> them all and keep the instrument working and off of the repair bench.
> I have personally seen enough failed electrolytic capacitors that if
> I have to replace one, I replace them all.
> The cost is not that high and the others will fail soon enough.
>
> There is no known schematic for the power supply.
> I am currently reverse engineering the supply.
> This is slow going as I have a lot of house maintenance to do.
> When I get finished with the schematics, I will make them available
> via the group.
>
> 73
> Glenn
> WB4UIV
>
>
> At 12:48 AM 7/16/2013, you wrote:
>
>
> >Mine doesn't. I leave my equipment unplugged, especially this time
> >of year and, when I plug it in, it responds to the switch
> >immediately. Of course, it takes a little while to come up to temp.
> >but you are aware of that. In summary, it powers up as soon as I
> >plug it in and press the "on" switch.
> >As I've said before, HP manuals have always been written for the
> >experienced tech. that doesn't really need a manual.
> >Tom
> >
> >--- In hp8924@yahoogroups.com, Ralph Mowery <ku4pt@> wrote:
> > >
> > > Does the 8924C require some time after it is pluged in to 'warm
> > up' before the power switch will turn it on ?
> > >

> > > I usually leave my 8924c plugged in so the heater part will stay
> > on and warm,but I noticed that when I unplug it for a day or so it
> > may take some time for the power switch to activate it. The green
> > led visiable from the holes in the back comes on as soon as I plug
> > it in as expected.
> > >
> > > As usual the manual on this unit does not mention anything about
> > it that I can find.
> > >
> >
> >
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> >
> >----------
> >
> >Yahoo! Groups Links
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> >
>

# 1563. Re: [hp8924] Re: 8924c warm up time

Yahoo group: hp8924
Date: 2013-07-16 13:10:02 UTC
From: Ralph Mowery
Topic: 1555  Message: 1563

Thanks to you and several others that responded.  Looks like I take out the power supply and start changing all the capacitors.  I seem to remember having a computer monitor that did the same thing about 10 years ago.

I did have an artical saved about the power supply but looked over it and it mentioned the green led should be on ( which mine was), but his was not on.

I have seen where I can get a rebuilt one for around $ 200 if I need it, but I am going to try replacing the capacitors.  I was in the unit a while back replacing the attuenuator from the 3 watt one to a 60 watt one.  Lots of screws...I used  battery powered drill to get most of them out..

>_____
>From: "wb6dgn_tom@..." <wb6dgn_tom@...>
>To: hp8924@yahoogroups.com
>Sent: Tuesday, July 16, 2013 12:48 AM
>Subject: [hp8924] Re: 8924c warm up time
>
>
>
>
>Mine doesn't.  I leave my equipment unplugged, especially this time of year and, when I plug it in, it responds to the switch immediately.  Of course, it takes a little while to come up to temp. but you are aware of that.  In summary, it powers up as soon as I plug it in and press the "on" switch.
>As I've said before, HP manuals have always been written for the experienced tech. that doesn't really need a manual.
>Tom
>
>---

# 1564. Re: [hp8924] Re: 8924c warm up time

Yahoo group: hp8924
Date: 2013-07-16 13:39:33 UTC
From: Ralph S. Turk
Topic: 1555  Message: 1564

Greetings
There is a company in Texas by the name of Power Clinic Inc. They repaired the power supply for my 8920 for about $100.oo. They indicated that they do not need any schematics. Just a list of the failure. If interested, contact is Brian Hill 972-620-9711. TAT is about one week.
Ralph, W7HSG

----- Original Message -----
From: "Ralph Mowery" <ku4pt@...>
To: hp8924@yahoogroups.com
Sent: Tuesday, July 16, 2013 6:10:02 AM
Subject: Re: [hp8924] Re: 8924c warm up time

Thanks to you and several others that responded. Looks like I take out the power supply and start changing all the capacitors. I seem to remember having a computer monitor that did the same thing about 10 years ago.

I did have an artical saved about the power supply but looked over it and it mentioned the green led should be on ( which mine was), but his was not on.

I have seen where I can get a rebuilt one for around $ 200 if I need it, but I am going to try replacing the capacitors. I was in the unit a while back replacing the attuenuator from the 3 watt one to a 60 watt one. Lots of screws...I used battery powered drill to get most of them out..

From: "wb6dgn_tom@..." <wb6dgn_tom@...>
To: hp8924@yahoogroups.com
Sent: Tuesday, July 16, 2013 12:48 AM
Subject: [hp8924] Re: 8924c warm up time

Mine doesn't. I leave my equipment unplugged, especially this time of year and, when I plug it in, it responds to the switch immediately. Of course, it takes a little while to come up to temp. but you are aware of that. In summary, it powers up as soon as I plug it in and press the "on" switch.
As I've said before, HP manuals have always been written for the experienced tech. that doesn't really need a manual.
Tom

---

# 1565. Re: [hp8924] Re: 8924c warm up time

Yahoo group: hp8924
Date: 2013-07-16 14:21:28 UTC
From: Ralph Mowery
Topic: 1555  Message: 1565

Thanks I will save this emai if I have any problems replacing the capacitors.

>_____
>From: Ralph S. Turk <w7hsg@comcast.net>
>To: hp8924@yahoogroups.com
>Sent: Tuesday, July 16, 2013 9:39 AM
>Subject: Re: [hp8924] Re: 8924c warm up time
>
>
>
>
>
>
>Greetings
>There is a company in Texas by the name of Power Clinic Inc.  They repaired the
>power supply for my 8920 for about $100.oo.  They indicated that they do not
>need any schematics. Just a list of the failure.  If interested, contact is
>Brian Hill 972-620-9711.  TAT is about one week.
>Ralph, W7HSG
>
>

# 1566. Re: [hp8924] Re: 8924c warm up time

Yahoo group: hp8924
Date: 2013-07-16 16:38:17 UTC
From: Charles Schmell
Topic: 1555  Message: 1566

You could also try Rick at Amtronix.  I was on his website (www.amtronix.com) this morning and he lists a rebuilt power supply for the 8920 and 8924 for $150.

I have no financial interest in Amtronix,  only saw this this morning as I was looking at his RLB.

Charles, KS3Z

---
From: Ralph Mowery <ku4pt@...>
To: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
Sent: Tuesday, July 16, 2013 9:21 AM
Subject: Re: [hp8924] Re: 8924c warm up time

Thanks I will save this emai if I have any problems replacing the capacitors.

From: Ralph S. Turk <w7hsg@...>
>To: hp8924@yahoogroups.com
>Sent: Tuesday, July 16, 2013 9:39 AM
>Subject: Re: [hp8924] Re: 8924c warm up time
>
>
>
>
>
>
>
>Greetings
>There is a company in Texas by the name of Power Clinic Inc.  They repaired the
>power supply for my 8920 for about $100.oo.  They indicated that they do not
>need any schematics. Just a list of the failure.  If interested, contact is
>Brian Hill 972-620-9711.  TAT is about one week.
>Ralph, W7HSG
>
>

# 1567. Re: [hp8924] Re: 8924c warm up time

Yahoo group: hp8924
Date: 2013-07-16 17:20:19 UTC
From: Ralph Mowery
Topic: 1555  Message: 1567

Thanks.

I am aware of Amtronix and they have a nice web site and I have heard nothing but good about them.  If I can't repair the supply myself I may check with them.

>_____
>From: Charles Schmell <kb3cez@...>
>To: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
>Sent: Tuesday, July 16, 2013 12:38 PM
>Subject: Re: [hp8924] Re: 8924c warm up time
>
>
>
>
>
>
>You could also try Rick at Amtronix.  I was on his website (www.amtronix.com) this morning and he lists a rebuilt power supply for the 8920 and 8924 for $150.
>
>I have no financial interest in Amtronix,  only saw this this morning as I was looking at his RLB.
>
>Charles, KS3Z
>
>

# 1568. lcd display

Yahoo group: hp8924
Date: 2013-07-17 02:42:13 UTC
From: wb7dmx@att.net
Topic: 1568  Message: 1568

I built it as described on here but as you can see in the photo I posted, the display looks too big and the left side and the bottom is cut off.
what could be the problem ?

# 1569. Re: lcd display

Yahoo group: hp8924
Date: 2013-07-17 04:38:07 UTC
From: klyball
Topic: 1568  Message: 1569

you need to enter the GBS-8220 menu and adjust the geometry and display settings that should fix you up

good luck

--- In hp8924@yahoogroups.com, "wb7dmx@..." <shop2wb7dmx@...> wrote:
>
> I built it as described on here but as you can see in the photo I posted, the display looks too big and the left side and the bottom is cut off.
> what could be the problem ?
>

# 1570. Re: lcd display

Yahoo group: hp8924
Date: 2013-07-17 22:57:14 UTC
From: wb7dmx@att.net
Topic: 1568  Message: 1570

--- In hp8924@yahoogroups.com, "klyball" <klyball@...> wrote:
>
> you need to enter the GBS-8220 menu and adjust the geometry and display settings that should fix you up
>
> good luck
>
> --- In hp8924@yahoogroups.com, "wb7dmx@" <shop2wb7dmx@> wrote:
> >
> > I built it as described on here but as you can see in the photo I posted, the display looks too big and the left side and the bottom is cut off.
> > what could be the problem ?
> >
>
that's strange, I can't get into the geometry menu.
must be a bad board.

# 1571. Re: lcd display

Yahoo group: hp8924
Date: 2013-07-18 01:19:16 UTC
From: klyball
Topic: 1568  Message: 1571

try some different combinations of button push like left and right at the same time I can't remember how to get in the menu but I think I locked myself out of it once and thought it was bad but got back in but mine is now installed behind my bench

VE7GMN
--- In hp8924@yahoogroups.com, "wb7dmx@..." <shop2wb7dmx@...> wrote:
>
>
>
> --- In hp8924@yahoogroups.com, "klyball" <klyball@> wrote:
> >
> > you need to enter the GBS-8220 menu and adjust the geometry and display settings that should fix you up
> >
> > good luck
> >
> > --- In hp8924@yahoogroups.com, "wb7dmx@" <shop2wb7dmx@> wrote:
> > >
> > > I built it as described on here but as you can see in the photo I posted, the display looks too big and the left side and the bottom is cut off.
> > > what could be the problem ?
> > >
> >
> that's strange, I can't get into the geometry menu.
> must be a bad board.
>

# 1572. Re: lcd display

Yahoo group: hp8924
Date: 2013-07-18 18:22:13 UTC
From: wb7dmx@att.net
Topic: 1568  Message: 1572

still no go, is that red led by IC-6 supposed to be lit ?

I have two 8220 boards here and they both have problems.

the other one works but after a hour running, the display fades to the point that it is hard to read it, I did the 8200 mod for it but did not help.
thanks

--- In hp8924@yahoogroups.com, "klyball" <klyball@...> wrote:
>
>
> try some different combinations of button push like left and right at the same time I can't remember how to get in the menu but I think I locked myself out of it once and thought it was bad but got back in but mine is now installed behind my bench
>
> VE7GMN
> --- In hp8924@yahoogroups.com, "wb7dmx@" <shop2wb7dmx@> wrote:
> >
> >
> >
> > --- In hp8924@yahoogroups.com, "klyball" <klyball@> wrote:
> > >
> > > you need to enter the GBS-8220 menu and adjust the geometry and display settings that should fix you up
> > >
> > > good luck
> > >
> > > --- In hp8924@yahoogroups.com, "wb7dmx@" <shop2wb7dmx@> wrote:
> > > >
> > > > I built it as described on here but as you can see in the photo I posted, the display looks too big and the left side and the bottom is cut off.
> > > > what could be the problem ?
> > > >
> > >
> > that's strange, I can't get into the geometry menu.
> > must be a bad board.
> >
>

# 1573. Re: lcd display

Yahoo group: hp8924
Date: 2013-07-23 17:56:48 UTC
From: wb7dmx@att.net
Topic: 1568  Message: 1573

I just received another new board, and I still can't get into the geometry menu'

--- In hp8924@yahoogroups.com, "wb7dmx@..." <shop2wb7dmx@...> wrote:
>
> still no go, is that red led by IC-6 supposed to be lit ?
>
> I have two 8220 boards here and they both have problems.
>
> the other one works but after a hour running, the display fades to the point that it is hard to read it, I did the 8200 mod for it but did not help.
> thanks
>
> --- In hp8924@yahoogroups.com, "klyball" <klyball@> wrote:
> >
> >
> > try some different combinations of button push like left and right at the same time I can't remember how to get in the menu but I think I locked myself out of it once and thought it was bad but got back in but mine is now installed behind my bench
> >
> > VE7GMN
> > --- In hp8924@yahoogroups.com, "wb7dmx@" <shop2wb7dmx@> wrote:
> > >
> > >
> > >
> > > --- In hp8924@yahoogroups.com, "klyball" <klyball@> wrote:
> > > >
> > > > you need to enter the GBS-8220 menu and adjust the geometry and display settings that should fix you up
> > > >
> > > > good luck
> > > >
> > > > --- In hp8924@...m, "wb7dmx@" <shop2wb7dmx@> wrote:
> > > > >
> > > > > I built it as described on here but as you can see in the photo I posted, the display looks too big and the left side and the bottom is cut off.
> > > > > what could be the problem ?
> > > > >
> > > >
> > > that's strange, I can't get into the geometry menu.
> > > must be a bad board.
> > >
> >
>

# 1574. Re: lcd display

Yahoo group: hp8924
Date: 2013-07-24 03:45:01 UTC
From: klyball
Topic: 1568 Message: 1574

hmmm , it seems unlikely they are all bad boards

I will dig mine out and to see if I can find anything

--- In hp8924@yahoogroups.com, "wb7dmx@..." <shop2wb7dmx@...> wrote:
>
> I just received another new board, and I still can't get into the geometry menu'
>
> --- In hp8924@yahoogroups.com, "wb7dmx@" <shop2wb7dmx@> wrote:
> >
> > still no go, is that red led by IC-6 supposed to be lit ?
> >
> > I have two 8220 boards here and they both have problems.
> >
> > the other one works but after a hour running, the display fades to the point that it is hard to read it, I did the 8200 mod for it but did not help.
> > thanks
> >
> > --- In hp8924@yahoogroups.com, "klyball" <klyball@> wrote:
> > >
> > >
> > > try some different combinations of button push like left and right at the same time I can't remember how to get in the menu but I think I locked myself out of it once and thought it was bad but got back in but mine is now installed behind my bench
> > >
> > > VE7GMN
> > > --- In hp8924@yahoogroups.com, "wb7dmx@" <shop2wb7dmx@> wrote:
> > > >
> > > >
> > > >
> > > > --- In hp8924@yahoogroups.com, "klyball" <klyball@> wrote:
> > > > >
> > > > > you need to enter the GBS-8220 menu and adjust the geometry and display settings that should fix you up
> > > > >
> > > > > good luck
> > > > >
> > > > > --- In hp8924@yahoogroups.com, "wb7dmx@" <shop2wb7dmx@> wrote:
> > > > > >
> > > > > > I built it as described on here but as you can see in the photo I posted, the display looks too big and the left side and the bottom is cut off.
> > > > > > what could be the problem ?
> > > > > >
> > > > >
> > > > that's strange, I can't get into the geometry menu.

> > > > must be a bad board.
> > > >
> > >
> >
>

# 1575. Re: lcd display

Yahoo group: hp8924
Date: 2013-07-24 14:36:19 UTC
From: wb7dmx@att.net
Topic: 1568  Message: 1575

sent a email to seller and he responded that if I am using the P11 input that having the vert sync it will lock me out of the menu, I disconnect the vet sync , the red and blue wires and I still have a black & white display, cannot get in the the menu and no green display
I would be ok with the black & white display if I could have a full screen centered.

--- In hp8924@yahoogroups.com, "klyball" <klyball@...> wrote:
>
> hmmm , it seems unlikely they are all bad boards
>
> I will dig mine out and to see if I can find anything
>
> --- In hp8924@yahoogroups.com, "wb7dmx@" <shop2wb7dmx@> wrote:
> >
> > I just received another new board, and I still can't get into the geometry menu'
> >
> > --- In hp8924@yahoogroups.com, "wb7dmx@" <shop2wb7dmx@> wrote:
> > >
> > > still no go, is that red led by IC-6 supposed to be lit ?
> > >
> > > I have two 8220 boards here and they both have problems.
> > >
> > > the other one works but after a hour running, the display fades to the point that it is hard to read it, I did the 8200 mod for it but did not help.
> > > thanks
> > >
> > > --- In hp8924@yahoogroups.com, "klyball" <klyball@> wrote:
> > > >
> > > >
> > > > try some different combinations of button push like left and right at the same time I can't remember how to get in the menu but I think I locked myself out of it once and thought it was bad but got back in but mine is now installed behind my bench
> > > >
> > > > VE7GMN
> > > > --- In hp8924@yahoogroups.com, "wb7dmx@" <shop2wb7dmx@> wrote:
> > > > >
> > > > >
> > > > >
> > > > > --- In hp8924@yahoogroups.com, "klyball" <klyball@> wrote:
> > > > > >
> > > > > > you need to enter the GBS-8220 menu and adjust the geometry and display settings that should fix you up
> > > > > >
> > > > > > good luck
> > > > > >

> > > > > > --- In hp8924@yahoogroups.com, "wb7dmx@" <shop2wb7dmx@> wrote:
> > > > > > >
> > > > > > > I built it as described on here but as you can see in the photo I posted, the display looks too big and the left side and the bottom is cut off.
> > > > > > > what could be the problem ?
> > > > > > >
> > > > > >
> > > > > > that's strange, I can't get into the geometry menu.
> > > > > > must be a bad board.
> > > > > >
> > > > >
> > >
> >
>

# 1576. hold everything

Yahoo group: hp8924
Date: 2013-07-24 18:46:22 UTC
From: wb7dmx@att.net
Topic: 1576  Message: 1576

I got it kinda working now.
moved to the P3 connector and reset the board, them played with the buttons, and finally got into the menu, now I have the full display but now have the fading issue, want to try the 8200 mod that used the 3 33K resistors and a 100K pot connected to the 3.2 supply, for the black background

# 1577. gbs-8220 converter

Yahoo group: hp8924
Date: 2013-07-25 03:56:35 UTC
From: wb7dmx@att.net
Topic: 1577  Message: 1577

success, got it all working ok now, new pic in photo section.

# 1578. Re: gbs-8220 converter

Yahoo group: hp8924
Date: 2013-07-25 13:10:29 UTC
From: kernkampj
Topic: 1577  Message: 1578

Glad to see that your persistence paid off!

Would you list out the details of the setup that you ended up with, so others could get the same results?

Thanks!
==========

--- In hp8924@yahoogroups.com, "wb7dmx@..." <shop2wb7dmx@...> wrote:
>
> success, got it all working ok now, new pic in photo section.
>

# 1579. Re: [hp8924] Re: 8924c warm up time

Yahoo group: hp8924
Date: 2013-07-25 21:06:22 UTC
From: Ralph Mowery
Topic: 1555  Message: 1579

Thanks to all that answered my question.

I called Amtronix and they shipped me a rebuilt supply right away.  Arrived in about 2 or 3 days.

After 400 screws (seemed to be that many)  I replaced the supply and now when I plug it in after being off over night, the 8924c fan starts right up and it goes to the boot up process when I first push the power switch.

I opened up the supply but decided that there were too many capacitors for me to replace as none of them showed any physical signs of being bad.  That is when I decided a rebuilt supply was just about as cheap as getting all new capacitors.

Just glad I have a battery powered screw drive.

73

>_____
>From: Glenn Little WB4UIV <glennmaillist@...>
>To: hp8924@yahoogroups.com
>Sent: Tuesday, July 16, 2013 1:04 AM
>Subject: Re: [hp8924] Re: 8924c warm up time
>
>
>This is an indication of a failing power supply.
>There was a discussion some time ago about a capacitor to replace in
>the power supply.
>IIRC this was an always on 15 Volt supply.
>My take on the capacitor situation is that if one is failing replace
>them all and keep the instrument working and off of the repair bench.
>I have personally seen enough failed electrolytic capacitors that if
>I have to replace one, I replace them all.
>The cost is not that high and the others will fail soon enough.
>
>There is no known schematic for the power supply.
>I am currently reverse engineering the supply.
>This is slow going as I have a lot of house maintenance to do.
>When I get finished with the schematics, I will make them available
>via the group.
>
>73
>Glenn
>WB4UIV
>
>
>At 12:48 AM 7/16/2013, you wrote:

>
>
>>Mine doesn't.  I leave my equipment unplugged, especially this time
>>of year and, when I plug it in, it responds to the switch
>>immediately.  Of course, it takes a little while to come up to temp.
>>but you are aware of that.  In summary, it powers up as soon as I
>>plug it in and press the "on" switch.
>>As I've said before, HP manuals have always been written for the
>>experienced tech. that doesn't really need a manual.
>>Tom
>>
>>--- In hp8924@yahoogroups.com, Ralph Mowery <ku4pt@...> wrote:
>> >
>> > Does the 8924C require some time after it is pluged in to 'warm
>> up' before the power switch will turn it on ?
>> >
>>

# 1580. Re: gbs-8220 converter

Yahoo group: hp8924
Date: 2013-07-25 22:47:00 UTC
From: wb7dmx@att.net
Topic: 1577  Message: 1580

I did, it is listed in the photo section, exactly what I did.

--- In hp8924@yahoogroups.com, "kernkampj" <kernkampj@...> wrote:
>
> Glad to see that your persistence paid off!
>
> Would you list out the details of the setup that you ended up with, so others could get the same results?
>
> Thanks!
> ==========
>
> --- In hp8924@yahoogroups.com, "wb7dmx@" <shop2wb7dmx@> wrote:
> >
> > success, got it all working ok now, new pic in photo section.
> >
>

# 1581. GBS-8220 setup

Yahoo group: hp8924
Date: 2013-07-25 23:05:33 UTC
From: wb7dmx@att.net
Topic: 1581  Message: 1581

use only P3 for input.
connect the RGB wires to listed pins
use the LM-1881 sync sep.
only pin one goes the the sync of P3.
do not use the vert sync on pin 3 of the LM1881.
then you should be able to go into the geomemtry menu to center the display.

also add the 3 33 k resistors to C29, C32, and C36 with a 100K pot center, outside leads of the pot go to R1 for the 3.2 volt reg. and the other side of the pot goes to ground,

in the photo section there is a full description and pictures of how to connect it up.

do NOT install the 50 k resistors, there not needed.

that's it.

# 1582. RLB

Yahoo group: hp8924
Date: 2013-07-29 04:36:42 UTC
From: wb7dmx@att.net
Topic: 1582  Message: 1582

I built a RLB from the hand book and would like to test it on my new toy.
con anybody tell me what settings and connections to use to test it.
thank you.
bob

# 1583. Re: Modifying internal 3W attenuator (Assembly A4)

Yahoo group: hp8924
Date: 2013-07-29 05:10:22 UTC
From: klyball
Topic: 478  Message: 1583

Hi all

Just completed the attenuator mod using the H100NA20X4 flange attenuator and the 20db calibration file from the file section, just a warning for anyone that is going to try this. the attenuator needs to be fitted by grinding it down a bit, take your time grinding it down as I got mine to hot and the chip popped right of the base :( luckily I had obtained 2 parts so I took it slow the second time and all worked fine the calibration seems accurate for my purposes.

Thanks for the guide on this Upgrade
Ve7GmN

--- In hp8924@yahoogroups.com, "c_day_nz" <c.day@...> wrote:
>
> Just to complete this topic off, file posted HP-8924C_100W_upgrade.pdf outlines how I modified A4 assembly to 100W with a sub US$20 attenuator & various options of how to set it up. Also added some files to Attenuator Calibration folder - 20db cal data and corrected instructions. Cheers..
>

# 1584. Re: [hp8924] RLB

Yahoo group: hp8924
Date: 2013-07-29 11:11:24 UTC
From: Robert Atkinson
Topic: 1582  Message: 1584

Hi Bob,
See http://www.amtronix.com/rlb.htm
Spectrum anlyser and Tracking Generator for fast sweeps e.g adjusting and RF Tools software for accurate measurements. If you don't have RF Tools I can help you out, contact me off-list.

Robert G8RPI

---
From: "wb7dmx@..." <shop2wb7dmx@...>
To: hp8924@yahoogroups.com
Sent: Monday, 29 July 2013, 5:36
Subject: [hp8924] RLB

I built a RLB from the hand book and would like to test it on my new toy.
con anybody tell me what settings and connections to use to test it.
thank you.
bob

# 1585. Re: [hp8924] Re: Modifying internal 3W attenuator (Assembly A4) WARNING

Yahoo group: hp8924
Date: 2013-07-29 11:22:36 UTC
From: Robert Atkinson
Topic: 478  Message: 1585

Hi
Too late for you, but if grinding these tab attenuators make sure you DO NOT GRIND THE WHITE CERAMIC material. The material between the metal mounting tab and the chip is Beryllium Oxide and is highly toxic if ground up. Google it.

Robert G8RPI.

---
From: klyball <klyball@...>
To: hp8924@yahoogroups.com
Sent: Monday, 29 July 2013, 6:10
Subject: [hp8924] Re: Modifying internal 3W attenuator (Assembly A4)

Hi all

Just completed the attenuator mod using the H100NA20X4 flange attenuator and the 20db calibration file from the file section, just a warning for anyone that is going to try this. the attenuator needs to be fitted by grinding it down a bit, take your time grinding it down as I got mine to hot and the chip popped right of the base :( luckily I had obtained 2 parts so I took it slow the second time and all worked fine the calibration seems accurate for my purposes.

Thanks for the guide on this Upgrade
Ve7GmN

--- In mailto:hp8924%40yahoogroups.com, "c_day_nz" <c.day@...> wrote:
>
> Just to complete this topic off, file posted HP-8924C_100W_upgrade.pdf outlines how I modified A4 assembly to 100W with a sub US$20 attenuator & various options of how to set it up. Also added some files to Attenuator Calibration folder - 20db cal data and corrected instructions. Cheers..
>

# 1586. Re: RLB

Yahoo group: hp8924
Date: 2013-07-29 11:59:06 UTC
From: Don
Topic: 1582  Message: 1586

The RF Tools program is a really nice set of tools which includes the swept return loss. Makes it a snap to determine return loss. You basically start the program and just follow the on-screen instructions and the 8924C does the rest. You can also do it manually, but it involves a lot more steps.

Don

--- In hp8924@yahoogroups.com, "wb7dmx@..." <shop2wb7dmx@...> wrote:
>
> I built a RLB from the hand book and would like to test it on my new toy.
> con anybody tell me what settings and connections to use to test it.
> thank you.
> bob
>

# 1587. Re: RLB

Yahoo group: hp8924
Date: 2013-07-29 13:27:00 UTC
From: wb7dmx@att.net
Topic: 1582  Message: 1587

ok, so how do I get the RF TOOLS program?

--- In hp8924@yahoogroups.com, "Don" <donald_s_58103@...> wrote:
>
> The RF Tools program is a really nice set of tools which includes the swept return loss. Makes it a snap to determine return loss. You basically start the program and just follow the on-screen instructions and the 8924C does the rest. You can also do it manually, but it involves a lot more steps.
>
> Don
>
> --- In hp8924@yahoogroups.com, "wb7dmx@" <shop2wb7dmx@> wrote:
> >
> > I built a RLB from the hand book and would like to test it on my new toy.
> > con anybody tell me what settings and connections to use to test it.
> > thank you.
> > bob
> >
>

# 1588. Re: [hp8924] RLB

Yahoo group: hp8924
Date: 2013-07-29 15:19:26 UTC
From: Ralph Mowery
Topic: 1582  Message: 1588

Check out this youtube vidio to start with.  While the test set is not a 8924, the screens are the same.

http://www.youtube.com/watch?v=bl5Nyn85SFs

Then go to the Agilent web page and download a PDF called 8920A,B Application Handbook.pdf.  While this is for a 8920 and not the 8924,  the setup is about the same.  As most know there is very little differance in the two units.  The buttons for the controls are differant, but the screens are almost the same.

To test it, you set up the spectrum analizer  to sweep a range of frequencies  and sent the generator output to the Duplex Out.  Connect the return port to the Antenna In.  The test port goes to the device under test.  To check the RLB you need a good shorted connector and a good 50 ohm load.  You check the RL with the test port open, then shorted.  The RL should be almost the same within a db or two. The you put on the 50 ohm load and it should show zero RL.  Even the best 50 ohm load will show a small ammount of RL.  Also mentione is using some 6 DB pads between the 8924 and the RLB ports.  I don't normally do this as I can't tell any differnce for what I am doing, but I am not making critical measurmments.

There is a copy of the RF Tools program in the files section.  YOu can download it,but you will need a pcmcia card and a computer that will program it to use it.  I never can remember the name of the fellow on here that is from England, but he has a good deal on the RF Tools already on a card.

>_____
>From: "wb7dmx@..." <shop2wb7dmx@...>
>To: hp8924@yahoogroups.com
>Sent: Monday, July 29, 2013 12:36 AM
>Subject: [hp8924] RLB
>
>
>I built a RLB from the hand book and would like to test it on my new toy.
>con anybody tell me what settings and connections to use to test it.
>thank you.
>bob
>
>
>
>
>
>

# 1589. Re: Modifying internal 3W attenuator (Assembly A4) WARNING

Yahoo group: hp8924
Date: 2013-07-29 16:14:19 UTC
From: klyball
Topic: 478  Message: 1589

Thanks for the warning, i did not grind that part only the metal, but the heat and my clamp was pressing on the chip it poped off.

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Hi
> Too late for you, but if grinding these tab attenuators make sure you DO NOT GRIND THE WHITE CERAMIC material. The material between the metal mounting tab and the chip is Beryllium Oxide and is highly toxic if ground up. Google it.
> Â
> Robert G8RPI.
>
>
> _____
> From: klyball <klyball@...>
> To: hp8924@yahoogroups.com
> Sent: Monday, 29 July 2013, 6:10
> Subject: [hp8924] Re: Modifying internal 3W attenuator (Assembly A4)
>
> Â
>
>
> Hi all
>
> Just completed the attenuator mod using the H100NA20X4 flange attenuator and the 20db calibration file from the file section, just a warning for anyone that is going to try this. the attenuator needs to be fitted by grinding it down a bit, take your time grinding it down as I got mine to hot and the chip popped right of the base :( luckily I had obtained 2 parts so I took it slow the second time and all worked fine the calibration seems accurate for my purposes.
>
> Thanks for the guide on this Upgrade
> Ve7GmN
>
> --- In mailto:hp8924%40yahoogroups.com, "c_day_nz" <c.day@> wrote:
> >
> > Just to complete this topic off, file posted HP-8924C_100W_upgrade.pdf outlines how I modified A4 assembly to 100W with a sub US$20 attenuator & various options of how to set it up. Also added some files to Attenuator Calibration folder - 20db cal data and corrected instructions. Cheers..
> >
>

# 1590. Re: RLB

Yahoo group: hp8924
Date: 2013-07-29 20:22:23 UTC
From: wb7dmx@att.net
Topic: 1582  Message: 1590

thank you, that was a big help.
I have only had my 8924c for about a week now and it is the first time I was even close to a spectrum analyzer, this is a really fine peace of equipment.
bob

--- In hp8924@yahoogroups.com, Ralph Mowery <ku4pt@...> wrote:
>
>
>
> Check out this youtube vidio to start with.  While the test set is not a 8924, the screens are the same.
>
> http://www.youtube.com/watch?v=bl5Nyn85SFs
>
> Then go to the Agilent web page and download a PDF called 8920A,B Application Handbook.pdf.  While this is for a 8920 and not the 8924,  the setup is about the same.  As most know there is very little differance in the two units.  The buttons for the controls are differant, but the screens are almost the same.
>
> To test it, you set up the spectrum analizer  to sweep a range of frequencies  and sent the generator output to the Duplex Out.  Connect the return port to the Antenna In.  The test port goes to the device under test.  To check the RLB you need a good shorted connector and a good 50 ohm load.  You check the RL with the test port open, then shorted. The RL should be almost the same within a db or two. The you put on the 50 ohm load and it should show zero RL.  Even the best 50 ohm load will show a small ammount of RL.  Also mentione is using some 6 DB pads between the 8924 and the RLB ports.  I don't normally do this as I can't tell any differnce for what I am doing, but I am not making critical measurmments.
>
> There is a copy of the RF Tools program in the files section.  YOu can download it,but you will need a pcmcia card and a computer that will program it to use it.  I never can remember the name of the fellow on here that is from England, but he has a good deal on the RF Tools already on a card.
>
> >_____
> >From: "wb7dmx@..." <shop2wb7dmx@...>
> >To: hp8924@yahoogroups.com
> >Sent: Monday, July 29, 2013 12:36 AM
> >Subject: [hp8924] RLB
> >
> >
> >I built a RLB from the hand book and would like to test it on my new toy.
> >con anybody tell me what settings and connections to use to test it.
> >thank you.
> >bob

> >
> >
> >
> >
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>

# 1591. Re: [hp8924] RLB

Yahoo group: hp8924
Date: 2013-07-29 20:48:28 UTC
From: Robert Atkinson
Topic: 1582  Message: 1591

Hi Ralph,
The bloke in England is me, thank you for the recomendation.
The 6dB pads HP show in the interconnection help isolate the RLB from any mismatch at the 8924 RF ports thus improving accuracy. It must be said that RF tools is only required if you are making RL meaurements. If you just want to adjust something for best match or frequency, or to check center frequency, you just need the 8924C in spectrum analyser / tracking generator mode and a RLB. In fact it is far easier to adjust circuits in this mode than using RF Tools.

Robert G8RPI.

---
From: Ralph Mowery <ku4pt@...>
To: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
Sent: Monday, 29 July 2013, 16:19
Subject: Re: [hp8924] RLB

Check out this youtube vidio to start with.  While the test set is not a 8924, the screens are the same.

http://www.youtube.com/watch?v=bl5Nyn85SFs

Then go to the Agilent web page and download a PDF called 8920A,B Application Handbook.pdf.  While this is for a 8920 and not the 8924,  the setup is about the same.  As most know there is very little differance in the two units.  The buttons for the controls are differant, but the screens are almost the same.

To test it, you set up the spectrum analizer  to sweep a range of frequencies  and sent the generator output to the Duplex Out.  Connect the return port to the Antenna In.  The test port goes to the device under test.  To check the RLB you need a good shorted connector and a good 50 ohm load.  You check the RL with the test port open, then shorted.  The RL should be almost the same within a db or two. The you put on the 50 ohm load and it should show zero RL.  Even the best 50 ohm load will show a small ammount of RL.  Also mentione is using some 6 DB pads between the 8924 and the RLB ports.  I don't normally do this as I can't tell any differnce for what I am doing, but I am not making critical measurmments.

There is a copy of the RF Tools program in the files section.  YOu can download it,but you will need a pcmcia card and a computer that will program it to use it.  I never can remember the name of the fellow on here that is from England, but he has a good deal on the RF Tools already on a card.
From: "wb7dmx@..." <shop2wb7dmx@hotmail.com>
>To: hp8924@yahoogroups.com
>Sent: Monday, July 29, 2013 12:36 AM
>Subject: [hp8924] RLB
>
>
>I built a RLB from the hand book and would like to test it on my new toy.

>con anybody tell me what settings and connections to use to test it.
>thank you.
>bob
>
>
>
>
>
>

# 1592. Re: RLB

Yahoo group: hp8924
Date: 2013-07-29 21:16:34 UTC
From: wb7dmx@att.net
Topic: 1582  Message: 1592

if I wanted to buy one from you, how much would want for the card,
bob

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Hi Ralph,
> The bloke in England is me, thank you for the recomendation.
> The 6dB pads HP show in the interconnection help isolate the RLB from any mismatch at the 8924 RF ports thus improving accuracy. It must be said that RF tools is only required if you are making RL meaurements. If you just want to adjust something for best match or frequency, or to check center frequency, you just need the 8924C in spectrum analyser / tracking generator mode and a RLB. In fact it is far easier to adjust circuits in this mode than using RF Tools.
>
> Robert G8RPI.
>
>
>
>
>
> _____
> From: Ralph Mowery <ku4pt@...>
> To: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
> Sent: Monday, 29 July 2013, 16:19
> Subject: Re: [hp8924] RLB
>
>
>
> Â
>
>
> Check out this youtube vidio to start with.Â  While the test set is not a 8924, the screens are the same.
> Â
> http://www.youtube.com/watch?v=bl5Nyn85SFs
> Â
> Then go to the Agilent web page and download a PDF called 8920A,B Application Handbook.pdf.Â  While this is for a 8920 and notÂ the 8924,Â  the setup is about the same.Â  As most know there is very little differance in the two units.Â  The buttons for the controls are differant, but the screens are almost the same.
> Â
> To test it, you set up the spectrum analizerÂ  to sweep a range of frequenciesÂ  and sent the generatorÂ output to the Duplex Out.Â  Connect the return port to the Antenna In.Â  The test port goes to the device under test.Â  To check the RLB you need a good shorted connector and a good 50 ohm load.Â  You check the RL with the test port open, then

shorted.Â  The RL should be almost the same within a db or two. The you put on the 50 ohm load and it should show zero RL.Â  Even the best 50 ohm load will show a small ammount of RL.Â  Also mentione is using some 6 DB pads between the 8924 and the RLB ports.Â  I don't normally do this as I can't tell any differnce for what I am doing, but I am not making critical measurmments.
> Â
> There is a copy of the RF Tools program in the files section.Â  YOu can download it,but you will need a pcmcia card and a computer that will program it to use it.Â  I never can remember the name of the fellow on here that is from England, but he has a good deal on the RF Tools already on a card.
> From: "wb7dmx@..." <shop2wb7dmx@...>
> >To: hp8924@yahoogroups.com
> >Sent: Monday, July 29, 2013 12:36 AM
> >Subject: [hp8924] RLB
> >
> >
> >I built a RLB from the hand book and would like to test it on my new toy.
> >con anybody tell me what settings and connections to use to test it.
> >thank you.
> >bob
> >
> >
> >
> >
> >
> >
>

# 1593. Re: [hp8924] RLB

Yahoo group: hp8924
Date: 2013-07-29 22:36:36 UTC
From: Ralph Mowery
Topic: 1582  Message: 1593

I knew that was you Robert, but just could not think of your name or call at the time, sorry.  Just too lazy to look over the email to find your name and call...

You have helped me get some of the RF tools loaded on a pcmcia card and I think you for it. Most of the RF tools can be setup faster and beter manually for what I do.  Adjusting the duplexers for best return loss is beter done manually as RF tools only gives you a one shot view as you mentioned.  I don't think much of RF tools for what I do, but it does have one good thing and that  is the distance to fault.

73 de ku4pt

>_____
>From: Robert Atkinson <robert8rpi@...>
>To: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
>Sent: Monday, July 29, 2013 4:48 PM
>Subject: Re: [hp8924] RLB
>
>
>
>
>
>
>Hi Ralph,
>The bloke in England is me, thank you for the recomendation.
>The 6dB pads HP show in the interconnection help isolate the RLB from any mismatch at the 8924 RF ports thus improving accuracy. It must be said that RF tools is only required if you are making RL meaurements. If you just want to adjust something for best match or frequency, or to check center frequency, you just need the 8924C in spectrum analyser / tracking generator mode and a RLB. In fact it is far easier to adjust circuits in this mode than using RF Tools.
>
>Robert G8RPI.
>
>
>
>
>
>
>
>_____
>

# 1594. Re: [hp8924] Re: RLB

Yahoo group: hp8924
Date: 2013-07-29 22:56:52 UTC
From: Ralph Mowery
Topic: 1582  Message: 1594

You are going to have to spend a lot of time with that 8924.  It is easy to use,but because it does so much there is a lot of learning to do.  Also the manual for it is not worth having unless you are working on the old cell phones..  It is very similar to the 8920 series and if you download the manual for it from the Agilent site you will have enough reading for a long time.  Also the I think it is the e8285 or something like that is setup very similar to it also.  There are lots of youtube vidios that use this monitor.

The best thing to do is just start it up and press buttons.  You can not harm it as long as you do not put more that about 200 miliwatts into the antenna or whatever the rated input is for the RF IN/OUT port.

If you don't know of it, go to this site for some more reading and screen shots.
http://www.amtronix.com/hp8924c60.htm

Not sure if this site is still up, but there is a vidio for the 8920 that you can download and it will give you some ideas of what you can do.  It is slightly over 1 GB large.

If changing the file extension to MP4 doesn’t work, you might need to DL it again. It should play in most any version of VLC or GOM.

Slight change of plan. Being as my webhost is not cooperating with the single large file, I removed it. In place, I added another set of smaller pieces to DL. These are from WinRAR, for those familiar with that, and should reassemble using either WinRAR or 7-Zip. Just another option to the original set that Joe created. They can be found here…
http://grovesnet.org/Downloads/

For those interested in getting it in one chunk, Jim has kindly uploaded it to his site here (and it’s working much better than mine did)…
http://www.vvgmc.org/freda/Hp8920a%20Rf%20Communication%20Set-1.m4v

>_____
>From: "wb7dmx@..." <shop2wb7dmx@hotmail.com>
>To: hp8924@yahoogroups.com
>Sent: Monday, July 29, 2013 4:22 PM
>Subject: [hp8924] Re: RLB
>
>
>thank you, that was a big help.
>I have only had my 8924c for about a week now and it is the first time I was even close to a spectrum analyzer, this is a really fine peace of equipment.
>bob
>
>

# 1595. thanks,

Yahoo group: hp8924
Date: 2013-07-29 23:09:11 UTC
From: wb7dmx@att.net
Topic: 1595  Message: 1595

I did download all the information you suggested and even printed some of it up, I have been reading and studying a lot while I was saving up the money to buy it. I just need more practice using it, it really is the best test gear I have ever had, and it does soo much. I think I am going to have a lot of fun with it. wish I had it 50 years ago.

# 1596. Re: [hp8924] Re: RLB

Yahoo group: hp8924
Date: 2013-07-29 23:20:03 UTC
From: jim
Topic: 1582  Message: 1596

On Monday, July 29, 2013 03:56:52 PM you wrote:

Not sure if this site is still up, but there is a vidio for the 8920 that you can download and it will give you some ideas of what you can do. It is slightly over 1 GB large.
[snip]
http://www.vvgmc.org/freda/Hp8920a%20Rf%20Communication%20Set-1.m4v[1
]

it's still there and will be for as long as I'm webmaster for that rockhound club.

also webmaster for the local amateur radio club.
www.vvarc.org but that site isn't suited for GB sized files.

73s
jim
ki6njf

---
[1]
http://www.vvgmc.org/freda/Hp8920a%20Rf%20Communication%20Set-1.m4v

# 1597. Re: Modifying internal 3W attenuator (Assembly A4) WARNING

Yahoo group: hp8924
Date: 2013-07-30 02:33:14 UTC
From: klyball
Topic: 478  Message: 1597

I checked the data sheet and I believe these use Aluminium nitride (AlN) Quote "methods are available to allow AlN to be used in electronics applications similar to those of alumina and beryllium oxide"
I read the beryllium info and you don't want to grind that up.

I will put the data sheet in the file section

H100NA20X4
Resistive Element Thick film
Substrate ALN ceramic
Cover Alumina Ceramic
Mounting Flange Copper, Nickel plated per QQ-N-290
Lead(s): 99.99% pure silver (.006" thick)
AlN Ceramic

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Hi
> Too late for you, but if grinding these tab attenuators make sure you DO NOT GRIND THE WHITE CERAMIC material. The material between the metal mounting tab and the chip is Beryllium Oxide and is highly toxic if ground up. Google it.
> Â
> Robert G8RPI.
>
>
> _____
> From: klyball <klyball@...>
> To: hp8924@yahoogroups.com
> Sent: Monday, 29 July 2013, 6:10
> Subject: [hp8924] Re: Modifying internal 3W attenuator (Assembly A4)
>
> Â
>
>
> Hi all
>
> Just completed the attenuator mod using the H100NA20X4 flange attenuator and the 20db calibration file from the file section, just a warning for anyone that is going to try this. the attenuator needs to be fitted by grinding it down a bit, take your time grinding it down as I got mine to hot and the chip popped right of the base :( luckily I had obtained 2 parts so I took it slow the second time and all worked fine the calibration seems accurate for my purposes.
>
> Thanks for the guide on this Upgrade
> Ve7GmN
>

> --- In mailto:hp8924%40yahoogroups.com, "c_day_nz" <c.day@> wrote:
> >
> > Just to complete this topic off, file posted HP-8924C_100W_upgrade.pdf outlines how I modified A4 assembly to 100W with a sub US$20 attenuator & various options of how to set it up. Also added some files to Attenuator Calibration folder - 20db cal data and corrected instructions. Cheers..
> >
>

# 1598. Re: Modifying internal 3W attenuator (Assembly A4)

Yahoo group: hp8924
Date: 2013-07-30 12:47:26 UTC
From: Doug
Topic: 478  Message: 1598

Not knowing any better, I just nipped the excess flange off with a pair of side cutters. As I recall, the metal seems to be copper or something close, and quite soft. The attenuator is now secured with just one screw, and I was generous with heat sink compound. So far so good.
Doug

--- In hp8924@yahoogroups.com, "klyball" <klyball@...> wrote:
>
>
>
> Hi all
>
> Just completed the attenuator mod using the H100NA20X4 flange attenuator and the 20db calibration file from the file section, just a warning for anyone that is going to try this. the attenuator needs to be fitted by grinding it down a bit, take your time grinding it down as I got mine to hot and the chip popped right of the base :( luckily I had obtained 2 parts so I took it slow the second time and all worked fine the calibration seems accurate for my purposes.
>
> Thanks for the guide on this Upgrade
> Ve7GmN
>
>
> --- In hp8924@yahoogroups.com, "c_day_nz" <c.day@> wrote:
> >
> > Just to complete this topic off, file posted HP-8924C_100W_upgrade.pdf outlines how I modified A4 assembly to 100W with a sub US$20 attenuator & various options of how to set it up. Also added some files to Attenuator Calibration folder - 20db cal data and corrected instructions. Cheers..
> >
>

# 1599. Re: [hp8924] Re: Modifying internal 3W attenuator (Assembly A4) WARNING

Yahoo group: hp8924
Date: 2013-07-30 14:40:29 UTC
From: jim
Topic: 478  Message: 1599

I purchased 3 of them. The data sheet shows leads A and B but gives no in or out. Does anyone know if they have an in and out port or are they symmetrical? I'd like to use one as an external attenuator.

73s
jim
ki6njf

On Tuesday, July 30, 2013 02:33:14 AM you wrote:
> I checked the data sheet and I believe these use Aluminium nitride (AlN)
> Quote "methods are available to allow AlN to be used in electronics
> applications similar to those of alumina and beryllium oxide" I read the
> beryllium info and you don't want to grind that up.
>
> I will put the data sheet in the file section
>
> H100NA20X4
> Resistive Element Thick film
> Substrate ALN ceramic
> Cover Alumina Ceramic
> Mounting Flange Copper, Nickel plated per QQ-N-290
> Lead(s): 99.99% pure silver (.006" thick)
> AlN Ceramic
>

# 1600. Re: Modifying internal 3W attenuator (Assembly A4) WARNING

Yahoo group: hp8924
Date: 2013-07-30 21:13:28 UTC
From: Don
Topic: 478  Message: 1600

I think they are bi-directional, so no dedicated in and out port.

Don

--- In hp8924@yahoogroups.com, jim <jafconsulting@...> wrote:
>
> I purchased 3 of them. The data sheet shows leads A and B but gives no in or
> out. Does anyone know if they have an in and out port or are they
> symmetrical? I'd like to use one as an external attenuator.
>
> 73s
> jim
> ki6njf
>
>
> On Tuesday, July 30, 2013 02:33:14 AM you wrote:
> > I checked the data sheet and I believe these use Aluminium nitride (AlN)
> > Quote "methods are available to allow AlN to be used in electronics
> > applications similar to those of alumina and beryllium oxide" I read the
> > beryllium info and you don't want to grind that up.
> >
> > I will put the data sheet in the file section
> >
> > H100NA20X4
> > Resistive Element Thick film
> > Substrate ALN ceramic
> > Cover Alumina Ceramic
> > Mounting Flange Copper, Nickel plated per QQ-N-290
> > Lead(s): 99.99% pure silver (.006" thick)
> > AlN Ceramic
> >
>

# 1601. Re: [hp8924] Re: Modifying internal 3W attenuator (Assembly A4) WARNING

Yahoo group: hp8924
Date: 2013-07-31 06:35:24 UTC
From: Robert Atkinson
Topic: 478  Message: 1601

Hi,
I'm late to this one. Low power and low attenuation units tend to be symetrical but high power and particuarly high attenuation ones generally are not. They could be made symmetrical but this would mean two high power resistors rather than one, while only one is dissapating power in a high atttenuation unit. The Anaren item is marked on the package with a dot and that lead is A on the drawing. Convention says this would be the input.

Robert G8RPI.

---
From: Don <donald_s_58103@...>
To: hp8924@yahoogroups.com
Sent: Tuesday, 30 July 2013, 22:13
Subject: [hp8924] Re: Modifying internal 3W attenuator (Assembly A4) WARNING

I think they are bi-directional, so no dedicated in and out port.

Don

--- In mailto:hp8924%40yahoogroups.com, jim <jafconsulting@...> wrote:
>
> I purchased 3 of them. The data sheet shows leads A and B but gives no in or
> out. Does anyone know if they have an in and out port or are they
> symmetrical? I'd like to use one as an external attenuator.
>
> 73s
> jim
> ki6njf
>
>
> On Tuesday, July 30, 2013 02:33:14 AM you wrote:
> > I checked the data sheet and I believe these use Aluminium nitride (AlN)
> > Quote "methods are available to allow AlN to be used in electronics
> > applications similar to those of alumina and beryllium oxide" I read the
> > beryllium info and you don't want to grind that up.
> >
> > I will put the data sheet in the file section
> >
> > H100NA20X4
> > Resistive Element Thick film
> > Substrate ALN ceramic
> > Cover Alumina Ceramic
> > Mounting Flange Copper, Nickel plated per QQ-N-290
> > Lead(s): 99.99% pure silver (.006" thick)
> > AlN Ceramic

> >
>

# 1602. Re: Modifying internal 3W attenuator (Assembly A4) WARNING

Yahoo group: hp8924
Date: 2013-07-31 07:20:38 UTC
From: wb7dmx@att.net
Topic: 478  Message: 1602

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Hi,
> I'm late to this one. Low power and low attenuation units tend to be symetrical but high power and particuarly high attenuation ones generally are not. They could be made symmetrical but this would mean two high power resistors rather than one, while only one is dissapating power in a high atttenuation unit. The Anaren item is marked on the packageÂ with a dot and that lead is A on the drawing. Convention says this would be the input.
> Â
> Robert G8RPI.
>
>
did you get my e-mail ?

# 1604. Re: Quick Tips for New Users?

Yahoo group: hp8924
Date: 2013-07-31 17:40:26 UTC
From: wb7dmx@att.net
Topic: 1  Message: 1604

I have noticed that it is usable from 1 MHz to 1500 mhz.
I also am a new user and am having a lot of fun testing the items I have built over the years.

--- In hp8924@yahoogroups.com, K6PNG <irlp3358@...> wrote:
>
> Fred,
> I am in the same position as you are and that is exactly why i started
> this group. mine will be delivered Thursday and we will start the fun.
> my understanding is that this will be a great monitor for
> us hams to use for general radio alignment and also repeater maintenance.
>
> I have posted the manuals that i could find for this monitor in the
> files section. although i have noticed that almost everything in the
> manuals are aimed toward Cellular use i have been assured that we can
> use this monitor for LMR/Ham use also.
>
>
> 73
> Ray
> K6PNG
>
>
>
>
>
> > Does anyone have quick tips for new users of the 8924C?
> >
> > I have used other service monitors but not this one. I have one on
> > the way and should have it in a couple days.
> >
> > Thanks.
> >
> > Fred
> > W6WAW
>

# 1605. Re: Quick Tips for New Users?

Yahoo group: hp8924
Date: 2013-07-31 17:42:44 UTC
From: nx7r
Topic: 1  Message: 1605

Ive never been able to get my 8924 to go past like 1050mhz.
How do you do this?

Thank You!

73 Terry, NX7R

--- In hp8924@yahoogroups.com, "wb7dmx@..." <wb7dmx@...> wrote:
>
> I have noticed that it is usable from 1 MHz to 1500 mhz.
> I also am a new user and am having a lot of fun testing the items I have built over the years.
>
>
> --- In hp8924@yahoogroups.com, K6PNG <irlp3358@> wrote:
> >
> > Fred,
> > I am in the same position as you are and that is exactly why i started
> > this group. mine will be delivered Thursday and we will start the fun.
> > my understanding is that this will be a great monitor for
> > us hams to use for general radio alignment and also repeater maintenance.
> >
> > I have posted the manuals that i could find for this monitor in the
> > files section. although i have noticed that almost everything in the
> > manuals are aimed toward Cellular use i have been assured that we can
> > use this monitor for LMR/Ham use also.
> >
> >
> > 73
> > Ray
> > K6PNG
> >
> >
> >
> >
> >
> > > Does anyone have quick tips for new users of the 8924C?
> > >
> > > I have used other service monitors but not this one. I have one on
> > > the way and should have it in a couple days.
> > >
> > > Thanks.
> > >
> > > Fred
> > > W6WAW
> >

>

# 1606. Re: Quick Tips for New Users?

Yahoo group: hp8924
Date: 2013-07-31 17:55:39 UTC
From: wb7dmx@att.net
Topic: 1  Message: 1606

sorry, that was a typo.
supposed to be to 1015 Mhz.

--- In hp8924@yahoogroups.com, "wb7dmx@..." <wb7dmx@...> wrote:
>
> I have noticed that it is usable from 1 MHz to 1500 mhz.
> I also am a new user and am having a lot of fun testing the items I have built over the years.
>
>
> --- In hp8924@yahoogroups.com, K6PNG <irlp3358@> wrote:
> >
> > Fred,
> > I am in the same position as you are and that is exactly why i started
> > this group. mine will be delivered Thursday and we will start the fun.
> > my understanding is that this will be a great monitor for
> > us hams to use for general radio alignment and also repeater maintenance.
> >
> > I have posted the manuals that i could find for this monitor in the
> > files section. although i have noticed that almost everything in the
> > manuals are aimed toward Cellular use i have been assured that we can
> > use this monitor for LMR/Ham use also.
> >
> >
> > 73
> > Ray
> > K6PNG
> >
> >
> >
> >
> >
> > > Does anyone have quick tips for new users of the 8924C?
> > >
> > > I have used other service monitors but not this one. I have one on
> > > the way and should have it in a couple days.
> > >
> > > Thanks.
> > >
> > > Fred
> > > W6WAW
> >
>

# 1607. Re: Quick Tips for New Users?

Yahoo group: hp8924
Date: 2013-07-31 23:42:48 UTC
From: Don
Topic: 1  Message: 1607

You probably already know this, but get the manual for the HP 8920B. It has a lot more information for general RF use whereas the 8924C manual is geared towards cellular phone testing.

Take your time. It is easy to get frustrated and overwhelmed initially due to the vast capabilities of the instrument. Try to get familiar and comfortable with just a few of its capabilities initially. Later you can delve into its other capabilities.

If you find peering at the small monitor difficult, do a search for external monitor options. I have a 17" LCD monitor hooked up to my 8924C and I would never go back to using just the built in monitor.

Don

--- In hp8924@...m, "radioman762" <fwbray@...> wrote:
>
> Does anyone have quick tips for new users of the 8924C?
>
> I have used other service monitors but not this one. I have one on
> the way and should have it in a couple days.
>
> Thanks.
>
> Fred
> W6WAW
>

# 1608. Re: [hp8924] Re: Modifying internal 3W attenuator (Assembly A4) WARNING

Yahoo group: hp8924
Date: 2013-08-02 06:18:43 UTC
From: NZ Pepping
Topic: 478  Message: 1608

Hi all,

I have contacted Anaren regarding directionality of the attentuator.
Their reply:

"The part is directional and must have the input connected to the lead with the Dot on the lid next to it. See the datasheet for location."

Hope this helps everyone out there.

Regards,

Mark Pepping

----- Original Message -----
From: wb7dmx@...
To: hp8924@yahoogroups.com
Sent: Wednesday, July 31, 2013 7:20 PM
Subject: [hp8924] Re: Modifying internal 3W attenuator (Assembly A4) WARNING

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Hi,
> I'm late to this one. Low power and low attenuation units tend to be symetrical but high power and particuarly high attenuation ones generally are not. They could be made symmetrical but this would mean two high power resistors rather than one, while only one is dissapating power in a high atttenuation unit. The Anaren item is marked on the packageÂ with a dot and that lead is A on the drawing. Convention says this would be the input.
> Â
> Robert G8RPI.
>
>
did you get my e-mail ?

# 1609. Re: [hp8924] Re: Modifying internal 3W attenuator (Assembly A4) WARNING

Yahoo group: hp8924
Date: 2013-08-02 14:33:03 UTC
From: jim
Topic: 478  Message: 1609

Thank you Mark.

73s
jim
ki6njf

On Friday, August 02, 2013 06:18:43 PM you wrote:

Hi all,

I have contacted Anaren regarding directionality of the attentuator.
Their reply:

"The part is directional and must have the input connected to the lead with the
Dot on the lid next to it. See the datasheet for location."

Hope this helps everyone out there.

Regards,
Mark Pepping

----- Original Message -----
*From:* wb7dmx@...[1]
*To:* hp8924@yahoogroups.com[2]
*Sent:* Wednesday, July 31, 2013 7:20 PM
*Subject:* [hp8924] Re: Modifying internal 3W attenuator (Assembly A4)
WARNING

_hp8924@yahoogroups.com_, Robert Atkinson <robert8rpi@...> wrote:>> Hi,>
I'm late to this one. Low power and low attenuation units tend to be symetrical
but high power and particuarly high attenuation ones generally are not. They
could be made symmetrical but this would mean two high power resistors rather
than one, while only one is dissapating power in a high atttenuation unit. The
Anaren item is marked on the packageÂ with a dot and that lead is A on the
drawing. Convention says this would be the input. > Â > Robert G8RPI.> >did you
get my e-mail ?

---
[1] mailto:wb7dmx@...
[2] mailto:hp8924@yahoogroups.com

# 1610. Re: Extending SA and TG frequency range on the 8924C

Yahoo group: hp8924
Date: 2013-08-04 13:08:16 UTC
From: Robert Atkinson
Topic: 1610  Message: 1610

Hi Don,
For SA only up to 2GHz I used a minicircuits connectorised mixer (ZEM 4300 http://217.34.103.131/pdfs/ZEM-4300+.pdf but others will do),  with the signal to RF in, and the 8924C RF output to LO and the IF out to the low level input of the 8924C. For tracking I used a separate LO signal generator with a Minicircuits splitter and two mixers, one feeding the 8924C low level input and the other fed from the tracking output. Used this to set up some GPS (1575MHz) filters and amplifiers.

I'm currently working on a more permanant version. This is based on the harmonic generator and selector from a 5254C downconverter as the LO source. The 5254C is a plugin used with early HP frequency counters to extend the range to 3GHz. The harmonic generator will be driven from the 8924C 10MHz reference output and will provide dial selectable LO up to 3GHz in 100MHz steps locked to the 8924C reference eliminating drift. I will also add input attenuation and some filtering. Lacking a 5254C a simple harmonic generator and a couple of fixed 2 and 3 GHz bandpass filters could be used.

Robert G8RPI.

---

Hi Robert,

I read with interest your recent post recommending the 8924C to someone who had asked for opinions re: an SA purchase. I was particularly intrigued by your statement that using a couple of mixers and an LO, one could extend the range of the 8924C SA and TG to 3 GHz. I have an 8924C and would very much like to try this project. Could you give me details or at least provide some links on what it entails to put this thing together? It would be great to have a block diagram and step-by-step instructions. Thanks for your time!

Don

# 1611. new user

Yahoo group: hp8924
Date: 2013-08-07 23:30:16 UTC
From: wb7dmx@att.net
Topic: 1611  Message: 1611

I just completed installing a motorola mic to the 8924c, and would like to set it up to work like a ht on 146.52 simplex.
can you help me with the settings to do this ?
the reason is to check that the mic is wired correctly.

I did replace the mic element with a dynamic element.
bob

# 1612. Re: new user

Yahoo group: hp8924
Date: 2013-08-08 23:24:09 UTC
From: wb7dmx@att.net
Topic: 1611  Message: 1612

--- In hp8924@yahoogroups.com, "wb7dmx@..." <wb7dmx@...> wrote:
>
> I just completed installing a motorola mic to the 8924c, and would like to set it up to work like a ht on 146.52 simplex.
> can you help me with the settings to do this ?
> the reason is to check that the mic is wired correctly.
>
> I did replace the mic element with a dynamic element.
> bob
>
ok, I got part of it done, what I need now is to get the rf generator to be modulated by the audio from the mic

# 1613. Re: [hp8924] Re: new user

Yahoo group: hp8924
Date: 2013-08-09 03:16:04 UTC
From: Ralph Mowery
Topic: 1611  Message: 1613

Go to the RG Generator screen.

Set it up to generate a signal.
Set the MOD IN to FM (/Vpk)
You may or may not have to set it to the desired deviation.

The AF GEN to Audio out or off

Key the MIC so it grounds the KEY IN pin on the mic plug.  The RF Output will go from whatever you set it to to OFF when you unkey the mic.  It will go to the set output when you key the mic.

If you do not key the mic jack you will have a carrier, but no modulation.

This is not too helpful,but from the 8920 manual;To Use the MicrophoneTo modulate the RF Generator using the optional microphone (Agilent part
number 08920-61059):1. Connect the microphone to the MIC/ACC connector.2. Access the RF GENERATOR screen.3. Enter the carrier frequency in the RF Gen Freq field.4. Enter the RF Generator’s Amplitude.5. Select the Output Port (RF IN/OUT or DUPLEX OUT).6. Connect the selected output port to your receiver or antenna.7.
• select the type of modulation: Using the Mod In To field,FM (/Vpk)• enter the modulation sensitivity to a 1 Vpeak signal (usually 1 kHz for microphone
use). See “Mod In To” on page 499.8. Key the microphone to transmit.MIC/ACC Operating ConsiderationsMic In specifications
Input impedance = 100 kWMaximum input level = 10 V peak
Full scale input = 10 mV
Bandwidth is limited to 3 kHz.
The Mic In signal is filtered and amplified to provide a stable deviation-limited signal to the RF Generator.
750 ms microphone pre-emphasis is selected in the RF GENERATOR screen.

>_____
>From: "wb7dmx@..." <wb7dmx@...>
>To: hp8924@yahoogroups.com
>Sent: Thursday, August 8, 2013 7:24 PM
>Subject: [hp8924] Re: new user
>
>
>
>
>--- In hp8924@yahoogroups.com, "wb7dmx@..." <wb7dmx@...> wrote:
>>
>> I just completed installing a motorola mic to the 8924c, and would like to set it up to work like a ht on 146.52 simplex.
>> can you help me with the settings to do this ?
>> the reason is to check that the mic is wired correctly.

>>
>> I did replace the mic element with a dynamic element.
>> bob
>>
>ok, I got part of it done, what I need now is to get the rf generator to be modulated by the audio from the mic
>
>
>
>

# 1614. Reading DPL or CTCSS off the air

Yahoo group: hp8924
Date: 2013-08-09 23:19:15 UTC
From: tomasguerro
Topic: 1614  Message: 1614

I followed these instructions off the air and cannot get a reading. I am new at this and was hoping for some help:

If you want to decode PL or DPL on your HP 8920A/B or HP 8924C unit, here is the setup procedure for your HP Service Monitor. By saving this procedure in memory, you can easily recall it to quickly decode off the air.

1) Press "TX Test", set the "input port" to Ant (this is for easy "off the air " decoding. If you want to use the I/O port for radios connected directly to the I/O port, you can leave the input port to I/O.
2) Go To the decoder screen ( on the 8924C, press the blue "shift" key then the "decode" key).
3) Scroll to the "mode" field and set to "CDCSS" for DPL decode. (set to "Function Gen" for CTCSS decode)
4) Scroll to "Arm measurement" field and set to "continuous".
5) Set AF analyzer in field to "FM Demod".
6) Set input level to "0.30 KHz".
7) Set Polarity field to "normal". Now, when you key a portable near the HP Service monitor, you can read DPL / PL off the air on the left side of the decoder screen. The HP Service Monitor will display several DPL codes - generally, the correct DPL code is the first one.
8) To save this screen in memory for future use,: Press blue "shift" key, then "save" key. I suggest labeling this screen to "DPL_DEC" or if using PL (CTCSS), label PL_DEC.

# 1615. Re: [hp8924] Reading DPL or CTCSS off the air

Yahoo group: hp8924
Date: 2013-08-09 23:49:21 UTC
From: Ralph Mowery
Topic: 1614  Message: 1615

What are you trying to decode the DPL or the CTCSS ?

At what point do you seem to be getting lost at ?

>_____
>From: tomasguerro <tomasguerro@...>
>To: hp8924@yahoogroups.com
>Sent: Friday, August 9, 2013 7:19 PM
>Subject: [hp8924] Reading DPL or CTCSS off the air
>
>
>I followed these instructions off the air and cannot get a reading. I am new at this and was hoping for some help:
>
>  If you want to decode PL or DPL on your HP 8920A/B or HP 8924C unit, here is the setup procedure for your HP Service Monitor. By saving this procedure in memory, you can easily recall it to quickly decode off the air.
>
>1)  Press "TX Test", set the "input port" to Ant (this is for easy "off the air " decoding. If you want to use the I/O port for radios connected directly to the I/O port, you can leave the input port to I/O.
>2)  Go To the decoder screen ( on the 8924C, press the blue "shift" key then the "decode" key).
>3)  Scroll to the "mode" field and set to "CDCSS" for DPL decode. (set to "Function Gen" for CTCSS decode)
>4)  Scroll to "Arm measurement" field and set to "continuous".
>5)  Set AF analyzer in field to "FM Demod".
>6)  Set input level to "0.30 KHz".
>7)  Set Polarity field to "normal".  Now, when you key a portable near the HP Service monitor, you can read DPL / PL off the air on the left side of the decoder screen. The HP Service Monitor will display several DPL codes - generally, the correct DPL code is the first one.
>8)  To save this screen in memory for future use,: Press blue "shift" key, then "save" key. I suggest labeling this screen to "DPL_DEC" or if using PL (CTCSS), label PL_DEC.
>
>

# 1616. Re: Reading DPL or CTCSS off the air

Yahoo group: hp8924
Date: 2013-08-10 09:49:08 UTC
From: tomasguerro
Topic: 1614  Message: 1616

I'm sorry for not providing enough detail. I am trying to decode off the air. I want CTCSS.

Thank you for your reply.

--- In hp8924@yahoogroups.com, Ralph Mowery <ku4pt@...> wrote:
>
> What are you trying to decode the DPL or the CTCSS ?
>
> At what point do you seem to be getting lost at ?
>
>
>
>
> >_____
> >From: tomasguerro <tomasguerro@...>
> >To: hp8924@yahoogroups.com
> >Sent: Friday, August 9, 2013 7:19 PM
> >Subject: [hp8924] Reading DPL or CTCSS off the air
> >
> >
> >I followed these instructions off the air and cannot get a reading. I am new at this and was hoping for some help:
> >
> >  If you want to decode PL or DPL on your HP 8920A/B or HP 8924C unit, here is the setup procedure for your HP Service Monitor. By saving this procedure in memory, you can easily recall it to quickly decode off the air.
> >
> >1)  Press "TX Test", set the "input port" to Ant (this is for easy "off the air " decoding. If you want to use the I/O port for radios connected directly to the I/O port, you can leave the input port to I/O.
> >2)  Go To the decoder screen ( on the 8924C, press the blue "shift" key then the "decode" key).
> >3)  Scroll to the "mode" field and set to "CDCSS" for DPL decode. (set to "Function Gen" for CTCSS decode)
> >4)  Scroll to "Arm measurement" field and set to "continuous".
> >5)  Set AF analyzer in field to "FM Demod".
> >6)  Set input level to "0.30 KHz".
> >7)  Set Polarity field to "normal".  Now, when you key a portable near the HP Service monitor, you can read DPL / PL off the air on the left side of the decoder screen. The HP Service Monitor will display several DPL codes - generally, the correct DPL code is the first one.
> >8)  To save this screen in memory for future use,: Press blue "shift" key, then "save" key. I suggest labeling this screen to "DPL_DEC" or if using PL (CTCSS), label PL_DEC.
> >
> >

>

# 1617. Re: [hp8924] Reading DPL or CTCSS off the air

Yahoo group: hp8924
Date: 2013-08-10 17:03:36 UTC
From: Ralph Mowery
Topic: 1614  Message: 1617

I tried it on my 8924c and the directions work ok.

It may be somewhat confusing to new users. Make sure you are not getting the CDCSS and CTCSS  (subaudio tones that you want) confused.

Step 1 is just to set the input port.  Either the antenna input or the N connector on the far left.  If just holding the HT near the 8924, I would use the antenna input port.

Step 2 may be confusing.  What it means is to press the shift key (don't hold it , just a quick press and let go )then press the TX Test button again.  You will see the blue print above that key that says Decoder.

Use the round knob and go to where it says mode .  Press it in  and let it come back  out and you will see several choices.  Use the Func Gen.

Go to the Arm Mes and drop down under it and press the round knob so that CONT has the line under it.

Look at the AF ANL IN on thta screen and make sure it is set to FM Demod.  If not, set it there.

Set the input level to .30

When using the subaudio decoder you will not see the Polarity field as mentioned in step 7.  That if for the CDCSS mode.

Now key your transmitter near the antenna and you should start to see the subaudio frequency displayed while you are transmitting.

---

Now for the simple way to read the sub audio tones.

Press the  TX Test to get up the TX test screen as in step 1.  Use the round knob to get to Filter 2 and press the round knob and set it to 300Hz LPF.  The key the transmitter and read the tone frequency and deviation .

Don't forget to set it back to 15 khz or whatever you want so it will then show the normal audio deviation

Let me know if I can be of any more help.

>_____
>From: tomasguerro <tomasguerro@...>
>To: hp8924@yahoogroups.com
>Sent: Friday, August 9, 2013 7:19 PM
>Subject: [hp8924] Reading DPL or CTCSS off the air
>
>

>I followed these instructions off the air and cannot get a reading. I am new at this and was hoping for some help:
>
>  If you want to decode PL or DPL on your HP 8920A/B or HP 8924C unit, here is the setup procedure for your HP Service Monitor. By saving this procedure in memory, you can easily recall it to quickly decode off the air.
>
>1)  Press "TX Test", set the "input port" to Ant (this is for easy "off the air " decoding. If you want to use the I/O port for radios connected directly to the I/O port, you can leave the input port to I/O.
>2)  Go To the decoder screen ( on the 8924C, press the blue "shift" key then the "decode" key).
>3)  Scroll to the "mode" field and set to "CDCSS" for DPL decode. (set to "Function Gen" for CTCSS decode)
>4)  Scroll to "Arm measurement" field and set to "continuous".
>5)  Set AF analyzer in field to "FM Demod".
>6)  Set input level to "0.30 KHz".
>7)  Set Polarity field to "normal".  Now, when you key a portable near the HP Service monitor, you can read DPL / PL off the air on the left side of the decoder screen. The HP Service Monitor will display several DPL codes - generally, the correct DPL code is the first one.
>8)  To save this screen in memory for future use,: Press blue "shift" key, then "save" key. I suggest labeling this screen to "DPL_DEC" or if using PL (CTCSS), label PL_DEC.
>
>
>
>
>

# 1619. Re: Reading DPL or CTCSS off the air

Yahoo group: hp8924
Date: 2013-08-13 16:47:05 UTC
From: tomasguerro
Topic: 1614  Message: 1619

Thank you! That worked perfectly including the shortcut. The resolution is pretty wide, like showing 74.4987164 but I'll deal with it. I dunno what I did differently. Thank you for taking the time. I appreciate it. It looks like this beast does a lot without a manual :(

73's

--- In hp8924@yahoogroups.com, Ralph Mowery <ku4pt@...> wrote:
>
> I tried it on my 8924c and the directions work ok.
>
> It may be somewhat confusing to new users. Make sure you are not getting the CDCSS and CTCSS  (subaudio tones that you want) confused.
>
> Step 1 is just to set the input port.  Either the antenna input or the N connector on the far left.  If just holding the HT near the 8924, I would use the antenna input port.
>
> Step 2 may be confusing.  What it means is to press the shift key (don't hold it , just a quick press and let go )then press the TX Test button again.  You will see the blue print above that key that says Decoder.
>
> Use the round knob and go to where it says mode .  Press it in  and let it come back  out and you will see several choices.  Use the Func Gen.
>
> Go to the Arm Mes and drop down under it and press the round knob so that CONT has the line under it.
>
> Look at the AF ANL IN on thta screen and make sure it is set to FM Demod.  If not, set it there.
>
> Set the input level to .30
>
> When using the subaudio decoder you will not see the Polarity field as mentioned in step 7.  That if for the CDCSS mode.
>
> Now key your transmitter near the antenna and you should start to see the subaudio frequency displayed while you are transmitting.
>
> ----------
>
> Now for the simple way to read the sub audio tones.
>
> Press the  TX Test to get up the TX test screen as in step 1.  Use the round knob to get to Filter 2 and press the round knob and set it to 300Hz LPF.  The key the transmitter and read the tone frequency and deviation .

>
> Don't forget to set it back to 15 khz or whatever you want so it will then show the normal audio deviation
>
> Let me know if I can be of any more help.
>
>
>
>
>
> >_____
> >From: tomasguerro <tomasguerro@...>
> >To: hp8924@yahoogroups.com
> >Sent: Friday, August 9, 2013 7:19 PM
> >Subject: [hp8924] Reading DPL or CTCSS off the air
> >
> >
> >I followed these instructions off the air and cannot get a reading. I am new at this and was hoping for some help:
> >
> >  If you want to decode PL or DPL on your HP 8920A/B or HP 8924C unit, here is the setup procedure for your HP Service Monitor. By saving this procedure in memory, you can easily recall it to quickly decode off the air.
> >
> >1)  Press "TX Test", set the "input port" to Ant (this is for easy "off the air " decoding. If you want to use the I/O port for radios connected directly to the I/O port, you can leave the input port to I/O.
> >2)  Go To the decoder screen ( on the 8924C, press the blue "shift" key then the "decode" key).
> >3)  Scroll to the "mode" field and set to "CDCSS" for DPL decode. (set to "Function Gen" for CTCSS decode)
> >4)  Scroll to "Arm measurement" field and set to "continuous".
> >5)  Set AF analyzer in field to "FM Demod".
> >6)  Set input level to "0.30 KHz".
> >7)  Set Polarity field to "normal".  Now, when you key a portable near the HP Service monitor, you can read DPL / PL off the air on the left side of the decoder screen. The HP Service Monitor will display several DPL codes - generally, the correct DPL code is the first one.
> >8)  To save this screen in memory for future use,: Press blue "shift" key, then "save" key. I suggest labeling this screen to "DPL_DEC" or if using PL (CTCSS), label PL_DEC.
> >
> >
> >
> >
> >
>

# 1620. Baldwin Hills

Yahoo group: hp8924
Date: 2013-08-13 17:22:02 UTC
From: tomasguerro
Topic: 1620  Message: 1620

I get the luck task of moving a repeater. Baldwin Hills is desired and I am told that the top spot on the hill is a ham. I have been unable to locate contact info for him and would love to do so. Can you help?

Thanks

# 1621. Re: [hp8924] Re: Reading DPL or CTCSS off the air

Yahoo group: hp8924
Date: 2013-08-13 20:23:11 UTC
From: Ralph Mowery
Topic: 1614  Message: 1621

Glad it worked for you Tom.

You can spend a lot of time with the 8924.  Think I mentioned it, but if not, go to the files section and download anything you see for the 8920.  It is almost the same unit in a slightly differant box.  The 8924 manual is almost useless unless you have some old cell phones.. Some buttons will be labled differantly and in a differant place, but they mostly work the same.  On youtube there is some info on the e8225 or something like that .  It is also similar to the 8924.

Don't be afraid to push buttons on the 8924 to see what hapens..  Unless you put too much power into the 8924, you can not hirt it.

If there is anything else I can help you  with, let me know.

>_____
>From: tomasguerro <tomasguerro@...>
>To: hp8924@yahoogroups.com
>Sent: Tuesday, August 13, 2013 12:47 PM
>Subject: [hp8924] Re: Reading DPL or CTCSS off the air
>
>
>Thank you! That worked perfectly including the shortcut. The resolution is pretty wide, like showing 74.4987164 but I'll deal with it. I dunno what I did differently. Thank you for taking the time. I appreciate it. It looks like this beast does a lot without a manual :(
>
>73's
>
>

# 1622. New file uploaded to hp8924

Yahoo group: hp8924
Date: 2013-08-13 22:50:23 UTC
From: hp8924@yahoogroups.com
Topic: 31  Message: 1622

```
Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hp8924
group.

File : /HP-8924C_100W_upgrade.pdf
Uploaded by : c_day_nz <zl1cvd@...>
Description : How to upgrade your 8924 to handle 100W!

You can access this file at the URL:
http://groups.yahoo.com/group/hp8924/files/HP-8924C_100W_upgrade.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.html
Regards,

c_day_nz <zl1cvd@...>
```

# 1623. Re: Baldwin Hills

Yahoo group: hp8924
Date: 2013-08-14 03:44:13 UTC
From: tomasguerro
Topic: 1620  Message: 1623

My apologies. Wrong group.

--- In hp8924@yahoogroups.com, "tomasguerro" <tomasguerro@...> wrote:
>
> I get the luck task of moving a repeater. Baldwin Hills is desired and I am told that the top spot on the hill is a ham. I have been unable to locate contact info for him and would love to do so. Can you help?
>
> Thanks
>

# 1624. Using the HP 83236B with the 8924C

Yahoo group: hp8924
Date: 2013-08-19 22:43:00 UTC
From: Don
Topic: 1624  Message: 1624

Hi all,

I could use some help here. I am trying to get an HP 83236B PCS interface to work with my 8924C. Does the 83236B have to have a GPIB or serial connection for the internal mixers in the 83236B to work and up / downconvert signals? I don't yet have a GPIB or serial cable yet. I have the connections set up as follows:
1. The 8924C 10 MHz reference out is connected to the reference in port on the back of the 83236B
2. The 8924C duplex out port is connected to the corresponding port on the 83236B and the antenna in port on the 8924C is also connected to the corresponding port on the 83236B.
3. I am feeding a test signal at 1710 MHz into the RF in / out port on the 83236B
4. The 8924C spectrum analyzer is set to sweep between 650 and 940 MHz.

With the above set up, I don't see any signal on the 8924C spectrum analyzer. Is this the way it is supposed to work? I'm guessing that the 8924C needs to send a command to the 83236B via GPIB or serial connection to "turn on" the PCS signal generator / analyzer. Am I correct? If not, what am I doing wrong? I am not interested in actual PCS testing functionality. I would just like to downconvert 1710 to 1990 MHz signals fed into the RF in/out port on the 83236B and be able to see them on the 8924C. Also, I don't have the PCSCDMA test software. I was hoping that I could use the mixer functionality in the 83236B without having to resort to GPIB commands or software. Is this possible?

Don

# 1625. New Yahoo Group

Yahoo group: hp8924
Date: 2013-08-28 21:31:25 UTC
From: willcoele@ameritech.net
Topic: 1625  Message: 1625

If anyone is interested, I started a new Yahoo Group for the Rigol spectrum analyzer.
"Rigol_DSA"

# 1626. Re: [hp8924] New Yahoo Group

Yahoo group: hp8924
Date: 2013-08-28 22:16:17 UTC
From: Rix Seacord
Topic: 1625  Message: 1626

Thanks
Now it will really get interesting.
Rix
K2AVP
?
?
?
Rix Seacord
K2AVP/4/499
eseacord@...
845-628-0892 Home
914-262-9186 Cell
914-233-3886 Skype
?
On 08/28/13, willcoele@ameritech.net wrote:
?
?

If anyone is interested, I started a new Yahoo Group for the Rigol spectrum analyzer.
"Rigol_DSA"

# 1627. CTCSS testing anomaly

Yahoo group: hp8924
Date: 2013-08-28 23:03:02 UTC
From: Mark Pepping
Topic: 1627  Message: 1627

I have followed the Amtronix Instruments guide for setting up to decode CTCSS via a saved function.
My preference but I use "Tone Seq" for easier to read CTCSS frequency.

One thing that bothers me is the fact that after using this function, going back to RX testing, AFGen2 now shows "Send, Stop" with no way of changing this. I need to perform the POWERON reset in order to gain control again.

Any idea on getting around this?

# 1628. Re: [hp8924] CTCSS testing anomaly

Yahoo group: hp8924
Date: 2013-08-29 02:57:03 UTC
From: Ralph Mowery
Topic: 1627  Message: 1628

What version of softwear does your 8924 have in it ?  I think mine is 8.01 or something like that.  I have tried to duplicate your problem, but have not been able to.

>_____
>From: Mark Pepping <nzpepping@...>
>To: hp8924@yahoogroups.com
>Sent: Wednesday, August 28, 2013 7:03 PM
>Subject: [hp8924] CTCSS testing anomaly
>
>
>
>
>
>
>I have followed the Amtronix Instruments guide for setting up to decode CTCSS via a saved function.
>My preference but I use "Tone Seq" for easier to read CTCSS frequency.
>
>One thing that bothers me is the fact that after using this function, going back to RX testing, AFGen2 now shows "Send, Stop" with no way of changing this. I need to perform the POWERON reset in order to gain control again.
>
>Any idea on getting around this?
>
>
>
>

# 1629. Re: CTCSS testing anomaly

Yahoo group: hp8924
Date: 2013-08-29 20:53:27 UTC
From: pepping_mark
Topic: 1627  Message: 1629

8924C has firmware A.06.33.
8920A has A.12.09.

Both machines exhibit the same symptoms.

--- In hp8924@yahoogroups.com, Ralph Mowery <ku4pt@...> wrote:
>
> What version of softwear does your 8924 have in it ?  I think mine is 8.01 or something like that.  I have tried to duplicate your problem, but have not been able to.
>
>
>
> >_____
> >From: Mark Pepping <nzpepping@...>
> >To: hp8924@yahoogroups.com
> >Sent: Wednesday, August 28, 2013 7:03 PM
> >Subject: [hp8924] CTCSS testing anomaly
> >
> >
> >
> >
> >
> >
> >I have followed the Amtronix Instruments guide for setting up to decode CTCSS via a saved function.
> >My preference but I use "Tone Seq" for easier to read CTCSS frequency.
> >
> >One thing that bothers me is the fact that after using this function, going back to RX testing, AFGen2 now shows "Send, Stop" with no way of changing this. I need to perform the POWERON reset in order to gain control again.
> >
> >Any idea on getting around this?
> >
> >
> >
> >
>

# 1630. GBS-8200 RF Interference

Yahoo group: hp8924
Date: 2013-09-02 08:28:37 UTC
From: pepping_mark
Topic: 1630  Message: 1630

Hi all,

Have modified the GBS-8200 as per instructions here.
Initial testing was with the cables all open (non-shielded) on the bench.
As soon as I keyed a portable (hand-held) RT, the LCD display blanked out. Upon release, the display is restored to normal.

What have others done? Built the VGA adapter into an aluminium box? That's what I'm planning to do now. Hope it works.

# 1631. Re: GBS-8200 RF Interference

Yahoo group: hp8924
Date: 2013-09-02 08:49:46 UTC
From: wb7dmx@att.net
Topic: 1630  Message: 1631

--- In hp8924@yahoogroups.com, "pepping_mark" <nzpepping@...> wrote:
>
> Hi all,
>
> Have modified the GBS-8200 as per instructions here.
> Initial testing was with the cables all open (non-shielded) on the bench.
> As soon as I keyed a portable (hand-held) RT, the LCD display blanked out. Upon release, the display is restored to normal.
>
> What have others done? Built the VGA adapter into an aluminium box? That's what I'm planning to do now. Hope it works.
>
which sync sep did you use ?
I would recommend the one I used for the gbs-8220, with the 3 33k resistors and a 100k pot.

maybe post a picture of your build would help too.

# 1632. Re: GBS-8200 RF Interference

Yahoo group: hp8924
Date: 2013-09-02 08:57:55 UTC
From: wb7dmx@att.net
Topic: 1630  Message: 1632

--- In hp8924@yahoogroups.com, "wb7dmx@..." <wb7dmx@...> wrote:
>
>
>
> --- In hp8924@yahoogroups.com, "pepping_mark" <nzpepping@> wrote:
> >
> > Hi all,
> >
> > Have modified the GBS-8200 as per instructions here.
> > Initial testing was with the cables all open (non-shielded) on the bench.
> > As soon as I keyed a portable (hand-held) RT, the LCD display blanked out. Upon release, the display is restored to normal.
> >
> > What have others done? Built the VGA adapter into an aluminium box? That's what I'm planning to do now. Hope it works.
> >
> which sync sep did you use ?

you did use coax from the composite video output to the sync separator , right ?
> I would recommend the one I used for the gbs-8220, with the 3 33k resistors and a 100k pot.
>
> maybe post a picture of your build would help too.
>

# 1633. Re: GBS-8200 RF Interference

Yahoo group: hp8924
Date: 2013-09-02 11:17:08 UTC
From: wb7dmx@att.net
Topic: 1630  Message: 1633

--- In hp8924@yahoogroups.com, "wb7dmx@..." <wb7dmx@...> wrote:
>
>
>
> --- In hp8924@yahoogroups.com, "wb7dmx@" <wb7dmx@> wrote:
> >
> >
> >
> > --- In hp8924@yahoogroups.com, "pepping_mark" <nzpepping@> wrote:
> > >
> > > Hi all,
> > >
> > > Have modified the GBS-8200 as per instructions here.
> > > Initial testing was with the cables all open (non-shielded) on the bench.
> > > As soon as I keyed a portable (hand-held) RT, the LCD display blanked out. Upon release, the display is restored to normal.
> > >
> > > What have others done? Built the VGA adapter into an aluminium box? That's what I'm planning to do now. Hope it works.
> > >
> > which sync sep did you use ?
>
> you did use coax from the composite video output to the sync separator , right ?
> > I would recommend the one I used for the gbs-8220, with the 3 33k resistors and a 100k pot.
> >
> > maybe post a picture of your build would help too.
> >
>

was the transmitter connected to the input of the 8924c >?
or was you keying it up and not connected with the antenna close to the converter and monitor. ?

# 1634. Re: GBS-8200 RF Interference

Yahoo group: hp8924
Date: 2013-09-03 07:34:28 UTC
From: pepping_mark
Topic: 1630  Message: 1634

Sync separator: The comparator version (non LM1881).
I used 33k resistors to GND, with 50k over the top of the caps.

I didn't quite get the description of the 100k pot install. Sorry :-)

I used a Handheld RT near the circuit. I suspect that!
Haven't tried a connected RT yet.

Have others installed their GBS-8200s into cases? Plastic or alloy?
Alloy box has been purchased so will go down this route.

Of course I used a coax cable to interconnect.

Will post photo sometime soon. I am using this at work, so time permitting.

--- In hp8924@yahoogroups.com, "wb7dmx@..." <wb7dmx@...> wrote:
>
>
>
> --- In hp8924@yahoogroups.com, "wb7dmx@" <wb7dmx@> wrote:
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> > --- In hp8924@yahoogroups.com, "wb7dmx@" <wb7dmx@> wrote:
> > >
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> > >
> > > --- In hp8924@yahoogroups.com, "pepping_mark" <nzpepping@> wrote:
> > > >
> > > > Hi all,
> > > >
> > > > Have modified the GBS-8200 as per instructions here.
> > > > Initial testing was with the cables all open (non-shielded) on the bench.
> > > > As soon as I keyed a portable (hand-held) RT, the LCD display blanked out. Upon release, the display is restored to normal.
> > > >
> > > > What have others done? Built the VGA adapter into an aluminium box? That's what I'm planning to do now. Hope it works.
> > > >
> > > which sync sep did you use ?
> >
> > you did use coax from the composite video output to the sync separator , right ?
> > > I would recommend the one I used for the gbs-8220, with the 3 33k resistors and a 100k pot.
> > >
> > > maybe post a picture of your build would help too.

> > >
> >
>
> was the transmitter connected to the input of the 8924c >?
> or was you keying it up and not connected with the antenna close to the converter and monitor. ?
>

# 1635. Re: GBS-8200 RF Interference

Yahoo group: hp8924
Date: 2013-09-06 16:08:06 UTC
From: wb7dmx@att.net
Topic: 1630  Message: 1635

go to the photo section, look up the gbs 8200 modifications group and study the picture labled dsc01879, and read all the information there and it will cover your build.
also any rf near the 8200 will block the processor on the board, which is what your doing.
shielding is the best thing you can do.any type of cse will correct it from happening.

--- In hp8924@yahoogroups.com, "pepping_mark" <nzpepping@...> wrote:
>
> Sync separator: The comparator version (non LM1881).
> I used 33k resistors to GND, with 50k over the top of the caps.
>
> I didn't quite get the description of the 100k pot install. Sorry :-)
>
> I used a Handheld RT near the circuit. I suspect that!
> Haven't tried a connected RT yet.
>
> Have others installed their GBS-8200s into cases? Plastic or alloy?
> Alloy box has been purchased so will go down this route.
>
> Of course I used a coax cable to interconnect.
>
> Will post photo sometime soon. I am using this at work, so time permitting.
>
> --- In hp8924@yahoogroups.com, "wb7dmx@" <wb7dmx@> wrote:
> >
> >
> >
> > --- In hp8924@yahoogroups.com, "wb7dmx@" <wb7dmx@> wrote:
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> > > --- In hp8924@yahoogroups.com, "wb7dmx@" <wb7dmx@> wrote:
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> > > >
> > > > --- In hp8924@yahoogroups.com, "pepping_mark" <nzpepping@> wrote:
> > > > >
> > > > > Hi all,
> > > > >
> > > > > Have modified the GBS-8200 as per instructions here.
> > > > > Initial testing was with the cables all open (non-shielded) on the bench.
> > > > > As soon as I keyed a portable (hand-held) RT, the LCD display blanked out. Upon release, the display is restored to normal.
> > > > >
> > > > > What have others done? Built the VGA adapter into an aluminium box? That's what I'm planning to do now. Hope it works.

> > > > >
> > > > which sync sep did you use ?
> > >
> > > you did use coax from the composite video output to the sync separator , right ?
> > > > I would recommend the one I used for the gbs-8220, with the 3 33k resistors and a 100k pot.
> > > >
> > > > maybe post a picture of your build would help too.
> > > >
> > >
> >
> > was the transmitter connected to the input of the 8924c >?
> > or was you keying it up and not connected with the antenna close to the converter and monitor. ?
> >
>

# 1636. Re: GBS-8200 RF Interference

Yahoo group: hp8924
Date: 2013-09-07 03:10:27 UTC
From: pepping_mark
Topic: 1630  Message: 1636

Had a chance yesterday to install into an aluminium case.
Works a lot better, although 'blocking' still occurs, but only with a UHF transceiver. And then only if held very close. VHF does not bother it.
Believe the RF is entering via the video cable. It is probably not the best shielded cable :-(. Had tried ferrites, also, to no avail.
Will make a short BNC-BNC cable and use the converter behind the 8924C.

I had already included the resistors, although I only added the 50k resistors, on top of the caps, for the Blue and the Green.
Yes, I added the Blue to the Green. I believe it creates a very pleasant hue to look at.

Initially only had the 33k resistors, to ground, for the Blue and Green. Found the video to fade out still.
I then added 33k resistors to the Red and Sync also. Now a normal picture is observed.

Will be so much better to use (see!!) on a larger screen.

My comment about not being able to follow the instructions were only aimed at the comment regarding a 100k pot. Not worried about it now as the system now works as expected.

Thanks all. :-)

--- In hp8924@yahoogroups.com, "wb7dmx@..." <wb7dmx@...> wrote:
>
> go to the photo section, look up the gbs 8200 modifications group and study the picture labled dsc01879, and read all the information there and it will cover your build.
> also any RF near the 8200 will block the processor on the board, which is what you're doing.
> shielding is the best thing you can do. Any type of case will correct it from happening.
>
>
> --- In hp8924@yahoogroups.com, "pepping_mark" <nzpepping@> wrote:
> >
> > Sync separator: The comparator version (non LM1881).
> > I used 33k resistors to GND, with 50k over the top of the caps.
> >
> > I didn't quite get the description of the 100k pot install. Sorry :-)
> >
> > I used a Handheld RT near the circuit. I suspect that!
> > Haven't tried a connected RT yet.
> >
> > Have others installed their GBS-8200s into cases? Plastic or alloy?
> > Alloy box has been purchased so will go down this route.
> >
> > Of course I used a coax cable to interconnect.
> >

> > Will post photo sometime soon. I am using this at work, so time permitting.
> >
> > --- In hp8924@yahoogroups.com, "wb7dmx@" <wb7dmx@> wrote:
> > >
> > >
> > >
> > > --- In hp8924@yahoogroups.com, "wb7dmx@" <wb7dmx@> wrote:
> > > >
> > > >
> > > >
> > > > --- In hp8924@yahoogroups.com, "wb7dmx@" <wb7dmx@> wrote:
> > > > >
> > > > >
> > > > >
> > > > > --- In hp8924@yahoogroups.com, "pepping_mark" <nzpepping@> wrote:
> > > > > >
> > > > > > Hi all,
> > > > > >
> > > > > > Have modified the GBS-8200 as per instructions here.
> > > > > > Initial testing was with the cables all open (non-shielded) on the bench.
> > > > > > As soon as I keyed a portable (hand-held) RT, the LCD display blanked out. Upon release, the display is restored to normal.
> > > > > >
> > > > > > What have others done? Built the VGA adapter into an aluminium box? That's what I'm planning to do now. Hope it works.
> > > > > >
> > > > > which sync sep did you use ?
> > > > >
> > > > you did use coax from the composite video output to the sync separator , right ?
> > > > > I would recommend the one I used for the gbs-8220, with the 3 33k resistors and a 100k pot.
> > > > >
> > > > > maybe post a picture of your build would help too.
> > > > >
> > > >
> > >
> > > was the transmitter connected to the input of the 8924c >?
> > > or was you keying it up and not connected with the antenna close to the converter and monitor. ?
> > >
> >
>

# 1637. WTB Switchcraft 05CL5MX

Yahoo group: hp8924
Date: 2013-09-07 05:43:17 UTC
From: <hr2pac@...>
Topic: 1637  Message: 1637

Hello all. I am in need of a Switchcraft 05CL5MX mic connector for my HP8924C, I would prefer NIB or NOS, can pay via PayPal. Thanks. Pete.

# 1638. Re: WTB Switchcraft 05CL5MX

Yahoo group: hp8924
Date: 2013-09-07 06:02:53 UTC
From: wb7dmx@att.net
Topic: 1637  Message: 1638

I ordered mine from mouser.

mouser part number is :

523-t3524 501

circular din connectors 8p din cable plug
sodr silv bayonet

$7.92

wb7dmx
bob

# 1639. RE: [hp8924] WTB Switchcraft 05CL5MX

Yahoo group: hp8924
Date: 2013-09-07 19:23:11 UTC
From: Adam Farson
Topic: 1637  Message: 1639
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Pete,

Is it an 8-pin male DIN plug with a locking ring and a black Neoprene cable sleeve? I have one new and unused, but not boxed. I would like to get $25 for the plug plus air-mail postage. PayPal to my e-mail address (good in QRZ) is OK.

73, Adam VA7OJ/AB4OJ

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of hr2pac@...
Sent: 6-Sep-13 22:43
To: hp8924@yahoogroups.com
Subject: [hp8924] WTB Switchcraft 05CL5MX

Hello all. I am in need of a Switchcraft 05CL5MX mic connector for my HP8924C, I would prefer NIB or NOS, can pay via PayPal. Thanks. Pete.

# 1640. RE: [hp8924] WTB Switchcraft 05CL5MX

Yahoo group: hp8924
Date: 2013-09-07 19:26:31 UTC
From: Adam Farson
Topic: 1637  Message: 1640
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Pete,

The price I quoted includes air-mail postage.

73, Adam VA7OJ/AB4OJ

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Adam Farson
Sent: 7-Sep-13 12:23
To: hp8924@yahoogroups.com
Subject: RE: [hp8924] WTB Switchcraft 05CL5MX

Hi Pete,

Is it an 8-pin male DIN plug with a locking ring and a black Neoprene cable sleeve? I have one new and unused, but not boxed. I would like to get $25 for the plug plus air-mail postage. PayPal to my e-mail address (good in QRZ) is OK.

73, Adam VA7OJ/AB4OJ

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of hr2pac@...
Sent: 6-Sep-13 22:43
To: hp8924@yahoogroups.com
Subject: [hp8924] WTB Switchcraft 05CL5MX

Hello all. I am in need of a Switchcraft 05CL5MX mic connector for my HP8924C, I would prefer NIB or NOS, can pay via PayPal. Thanks. Pete.

# 1641. Re: WTB Switchcraft 05CL5MX

Yahoo group: hp8924
Date: 2013-09-08 01:10:33 UTC
From: wb6dgn_tom@att.net
Topic: 1637  Message: 1641

Here's another source, best price I've found. I bought two of them and can't tell the difference from Switchcraft.

http://www.mpja.com/DIN-Connector-Male-for-Cable-8-Pin-with-Locking-Ring/productinfo/18778%20PL/

# 1642. Re: WTB Switchcraft 05CL5MX

Yahoo group: hp8924
Date: 2013-09-08 01:23:04 UTC
From: wb6dgn_tom@att.net
Topic: 1637  Message: 1642

Link doesn't appear to work. It will take you the the MPJA site, then, on the left, click on "connectors". It's the last one on that page and is $2.95 each! Sorry, don't know why the link doesn't take you to the right page.
Tom

--- In hp8924@yahoogroups.com, "wb6dgn_tom@..." <wb6dgn_tom@...> wrote:
>
>
>
>
> Here's another source, best price I've found. I bought two of them and can't tell the difference from Switchcraft.
>
> http://www.mpja.com/DIN-Connector-Male-for-Cable-8-Pin-with-Locking-Ring/productinfo/18778%20PL/
>

# 1643. Re: [hp8924] Re: WTB Switchcraft 05CL5MX

Yahoo group: hp8924
Date: 2013-09-08 03:59:23 UTC
From: EMR NYC Gmail
Topic: 1637  Message: 1643

Try this link.

http://www.mpja.com/mobile/DIN-Connectors/products/95/2/0

Martin
W1EMR

Never forget our Brother & Sister Heroes 9/11/01.
It was not how they died that made them heroes.....
It was how they lived!

Check out Emergency Medical Rescue of New York City's website: www.EMRNYC.com

Contact Us:
Telephone: 718 474 0680 Email: info@...

Sent from my iPhone

On Sep 7, 2013, at 21:23, "wb6dgn_tom@..." <wb6dgn_tom@...> wrote:

>
>
> Link doesn't appear to work. It will take you the the MPJA site, then, on the left, click on "connectors". It's the last one on that page and is $2.95 each! Sorry, don't know why the link doesn't take you to the right page.
> Tom
>
> --- In hp8924@yahoogroups.com, "wb6dgn_tom@..." <wb6dgn_tom@...> wrote:
> >
> >
> >
> >
> > Here's another source, best price I've found. I bought two of them and can't tell the difference from Switchcraft.
> >
> > http://www.mpja.com/DIN-Connector-Male-for-Cable-8-Pin-with-Locking-Ring/productinfo/18778%20PL/
> >
>
>

# 1644. RE: Re: [hp8924] Re: WTB Switchcraft 05CL5MX

Yahoo group: hp8924
Date: 2013-09-08 06:47:41 UTC
From: <danderson255@...>
Topic: 1637  Message: 1644

This is whom i purchased mine from earlier this year. I ordered a few due to the price and a few other items as well to make the shipping worth while on such a small item.

--- In hp8924@yahoogroups.com, <hp8924@yahoogroups.com> wrote:

Try this link.

http://www.mpja.com/mobile/DIN-Connectors/products/95/2/0

Martin
W1EMR

Never forget our Brother & Sister Heroes 9/11/01.
It was not how they died that made them heroes.....
It was how they lived!

Check out Emergency Medical Rescue of New York City's website: www.EMRNYC.com (http://www.emrnyc.com/)

Contact Us:
Telephone: 718 474 0680 Email: info@...

Sent from my iPhone

On Sep 7, 2013, at 21:23, "wb6dgn_tom@..." <wb6dgn_tom@...> wrote:

Link doesn't appear to work. It will take you the the MPJA site, then, on the left, click on "connectors". It's the last one on that page and is $2.95 each! Sorry, don't know why the link doesn't take you to the right page.
Tom

--- In hp8924@yahoogroups.com, "wb6dgn_tom@..." <wb6dgn_tom@...> wrote:
>
>
>
>
> Here's another source, best price I've found. I bought two of them and can't tell the difference from Switchcraft.
>
> http://www.mpja.com/DIN-Connector-Male-for-Cable-8-Pin-with-Locking-Ring/productinfo/18778%20PL/
>

# 1645. [hp8924] Re: WTB Switchcraft 05CL5MX

Yahoo group: hp8924
Date: 2013-09-08 14:02:39 UTC
From: kernkampj
Topic: 1637  Message: 1645

You can get them from Allied Electronics -
http://www.alliedelec.com/search/productdetail.aspx?SKU=70214223&mkwid=sMCsguqPf&pcrid=23544076817&pkw=switchcraft%2005cl5mx&pmt=b&pdv=c&gclid=CK_ymdD6u7kCFap7QgodfHAARA
==========

# 1646. Re: WTB Switchcraft 05CL5MX

Yahoo group: hp8924
Date: 2013-09-08 19:28:35 UTC
From: wb6dgn_tom@att.net
Topic: 1637  Message: 1646

OR from MPJA at less than half Allied's price!
Tom

--- In hp8924@yahoogroups.com, "kernkampj" <kernkampj@...> wrote:
>
> You can get them from Allied Electronics -
> http://www.alliedelec.com/search/productdetail.aspx?SKU=70214223&mkwid=sMCsguqPf&pcrid=23544076817&pkw=switchcraft%2005cl5mx&pmt=b&pdv=c&gclid=CK_ymdD6u7kCFap7QgodfHAARA
> ==========
>

# 1647. A long shot...

Yahoo group: hp8924
Date: 2013-09-10 01:06:56 UTC
From: Don
Topic: 1647  Message: 1647

Hi all,

I know this is a long shot, but I am hoping that someone in this group has a piece of software that I am looking for. It is the utility software that was bundled with the HP 83236B PCS interface used with the 8924C, 8920B and other test sets. There are a couple of versions that I am aware of - Rev A.02.00 and A.02.01. The part numbers are 83236-85210 and 83236-85211 for Rev A.02.00 and 83236-61001/83236-85212 for Rev. A.02.01

If any of you has this software, I would greatly appreciate it if you could upload the memory card contents to the files section (much like the RF Tools files that have been uploaded).

Don

# 1648. RE: Modifying internal 3W attenuator (Assembly A4)

Yahoo group: hp8924
Date: 2013-09-25 09:58:17 UTC
From: <nzpepping@...>
Topic: 478  Message: 1648

Hi again,

I have added the NEW datasheet that includes the "INPUT" label on the diagram.
Hope it all helps.

MPep

---In hp8924@yahoogroups.com, <jafconsulting@...> wrote:

Thank you Mark.

73s

jim

ki6njf

On Friday, August 02, 2013 06:18:43 PM you wrote:

Hi all,

I have contacted Anaren regarding directionality of the attentuator.

Their reply:

"The part is directional and must have the input connected to the lead with the Dot on the lid next to it. See the datasheet for location."

Hope this helps everyone out there.

Regards,

Mark Pepping

----- Original Message -----

From: wb7dmx@...

To: hp8924@yahoogroups.com

Sent: Wednesday, July 31, 2013 7:20 PM

Subject: [hp8924] Re: Modifying internal 3W attenuator (Assembly A4) WARNING

--- In hp8924@yahoogroups.com, Robert Atkinson <robert8rpi@...> wrote:
>
> Hi,
> I'm late to this one. Low power and low attenuation units tend to be symetrical but high power and particuarly high attenuation ones generally are not. They could be made symmetrical but this would mean two high power resistors rather than one, while only one is

dissapating power in a high atttenuation unit. The Anaren item is marked on the packageÂ
with a dot and that lead is A on the drawing. Convention says this would be the input.
> Â
> Robert G8RPI.
>
>
did you get my e-mail ?

# 1650. Re: Modifying internal 3W attenuator (Assembly A4)

Yahoo group: hp8924
Date: 2013-09-25 15:05:50 UTC
From: brad_k9mhz
Topic: 478  Message: 1650

Looks like: richardsonrfpd.com is the North American source(?)

Thanks for doing this....3 watts is next to useless.

Best,
Brad, K9MHZ

--- In hp8924@yahoogroups.com, "Doug" <doug@...> wrote:
>
> Not knowing any better, I just nipped the excess flange off with a pair of side cutters. As I recall, the metal seems to be copper or something close, and quite soft. The attenuator is now secured with just one screw, and I was generous with heat sink compound. So far so good.
> Doug
>
> --- In hp8924@yahoogroups.com, "klyball" <klyball@> wrote:
> >
> >
> >
> > Hi all
> >
> > Just completed the attenuator mod using the H100NA20X4 flange attenuator and the 20db calibration file from the file section, just a warning for anyone that is going to try this. the attenuator needs to be fitted by grinding it down a bit, take your time grinding it down as I got mine to hot and the chip popped right of the base :( luckily I had obtained 2 parts so I took it slow the second time and all worked fine the calibration seems accurate for my purposes.
> >
> > Thanks for the guide on this Upgrade
> > Ve7GmN
> >
> >
> > --- In hp8924@yahoogroups.com, "c_day_nz" <c.day@> wrote:
> > >
> > > Just to complete this topic off, file posted HP-8924C_100W_upgrade.pdf outlines how I modified A4 assembly to 100W with a sub US$20 attenuator & various options of how to set it up. Also added some files to Attenuator Calibration folder - 20db cal data and corrected instructions. Cheers..
> > >
> >
>

# 1651. Re: [hp8924] Re: Modifying internal 3W attenuator (Assembly A4)

Yahoo group: hp8924
Date: 2013-09-25 18:41:13 UTC
From: Jerry Bishop
Topic: 478  Message: 1651

Been on E-bay- Under antt.s-W8KQ

---
From: brad_k9mhz <bradknapp@...>
To: hp8924@yahoogroups.com
Sent: Wednesday, September 25, 2013 10:12 AM
Subject: [hp8924] Re: Modifying internal 3W attenuator (Assembly A4)

Know of a good source for that device? I'm having a heck of a time finding one.

Thanks,

Brad, K9MHZ

# 1652. 8935A (8935 E6380A ) units being used - or modified?

Yahoo group: hp8924
Date: 2013-09-25 18:54:27 UTC
From: <gchafee@...>
Topic: 1652  Message: 1652

I have one of these 8935 E6380A units and have used it on and off, but was wondering if in the world of HP tinkerers, has anyone came up with any wondrous mods to either increase range or capabilities? I suspect it may use many of the same modules as eh other 8900 series service monitors, and therefore have the capacity for making it more useful.

For example, has anyone found a way to change the IF to have a more reasonable bandwidth ( right now it is 15KHZ)? A way to get it to use something like a 3kjhz, or better yet,,a DSP based programmable IF. Unfortunately, I suspect the Power-On Self Test would fail the unit if it was hardware modded. It would see the IF range is out of tolerance and fail unless there would be a way to re-write the eproms.

Any takers out there? Anyone with any cards that we could get a dump from that may be useful for activating some obscure function that could be useful for a standard Service Monitor?

I would love to find a way to get it to have full coverage from 100KHz to 2GHZ without the limit of 400KHZ on the low end and the odd break in the bands between 1GHZ and 1.7GHZ.

I know I could come up with a process to mix together signals externally and get a lower sensitivity unit, but that would take the usefulness out of what I would like to see.

How about it? Any takers?

Thanks,

Jerry

# 1653. RE: [hp8924] 8935A (8935 E6380A ) units being used - or modified?

Yahoo group: hp8924
Date: 2013-09-25 21:08:29 UTC
From: Adam Farson
Topic: 1652  Message: 1653
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Jerry,

The standard IF's in the 8935 are 30 and 230 kHz. Did you replace the receiver module with an 08920-61102 receiver to get the 15 kHz IF?

If the instrument is to be used primarily for FM (16K0F3E), the 15 kHz IF is the minimum acceptable bandwidth. For 11K0F3E, a 7.5 kHz filter is best but the 15 kHz bandwidth will do in a pinch.

The spectrum analyser coverage starts at 1400 MHz, to cover the GPS band – but I do not know whether the synthesiser coverage can be extended.

You can use an external mixer without loss of sensitivity if it is preceded by a bandpass filter and low-noise preamp. Mini-Circuits probably have suitable modules in their catalogue.

My 8935 E6380A was virtually new/unused when I acquired it, so I am very hesitant to hack into it.

Best regards,

Adam

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of gchafee@...
Sent: 25-Sep-13 11:54
To: hp8924@yahoogroups.com
Subject: [hp8924] 8935A (8935 E6380A ) units being used - or modified?

I have one of these 8935 E6380A units and have used it on and off, but was wondering if in the world of HP tinkerers, has anyone came up with any wondrous mods to either increase range or capabilities? I suspect it may use many of the same modules as eh other 8900 series service monitors, and therefore have the capacity for making it more useful.

For example, has anyone found a way to change the IF to have a more reasonable bandwidth ( right now it is 15KHZ)? A way to get it to use something like a 3kjhz, or better yet,,a DSP based programmable IF. Unfortunately, I suspect the Power-On Self Test would fail the unit if it was hardware modded. It would see the IF range is out of tolerance and fail unless there would be a way to re-write the eproms.

Any takers out there? Anyone with any cards that we could get a dump from that may be useful for activating some obscure function that could be useful for a standard Service Monitor?

I would love to f ind a way to get it to have full coverage from 100KHz to 2GHZ without the limit of 400KHZ on the low end and the odd break in the bands between 1GHZ and 1.7GHZ.

I know I could come up with a process to mix together signals externally and get a lower sensitivity unit, but that would take the usefulness out of what I would like to see.

How about it? Any takers?

Thanks,

Jerry

# 1654. Re: [hp8924] 8935A (8935 E6380A ) units being used - or modified?

Yahoo group: hp8924
Date: 2013-09-25 21:38:49 UTC
From: Gerald Chafee
Topic: 1652  Message: 1654

Hi Adam,

I stand corrected.

I also have the 30KHz filter. My entry for 15KHz was the maximum I would wish for. Your thought of a 7.5 filter would be interesting.

I have not had access to a module to attempt to swap out, but I hope to have a second 8935 unit I might be able to play with. It would have the 30KHz filter though.

My thought is the 8935 goes though internal testing at start-up and presumably will test the IF to see if it is out of tolerance. If so, they idea may stop right there.

I may be wrong. If so, maybe there is a hack in the future to test. I am not sure if it uses a crystal filter combination, or some different way. I would think that since HP did not skimp on costs, they would go for what was best at the time.

I was told the current IF unit has some kind of jumper on it that states "30KHz or 15KHz". I am sure it is not as easy as changing a jumper.

I will let you know if I find anything.

Jerry

On Wed, Sep 25, 2013 at 5:08 PM, Adam Farson <farson@...> wrote:

> **
>
>
> Hi Jerry,****
>
> ** **
>
> The standard IF’s in the 8935 are 30 and 230 kHz. Did you replace the
> receiver module with an 08920-61102 receiver to get the 15 kHz IF?****
>
> ** **
>
> If the instrument is to be used primarily for FM (16K0F3E), the 15 kHz IF
> is the minimum acceptable bandwidth. For 11K0F3E, a 7.5 kHz filter is best
> but the 15 kHz bandwidth will do in a pinch.****
>
> ** **
>

> The spectrum analyser coverage starts at 1400 MHz, to cover the GPS band –
> but I do not know whether the synthesiser coverage can be extended.****
>
> ** **
>
> You can use an external mixer without loss of sensitivity if it is
> preceded by a bandpass filter and low-noise preamp. Mini-Circuits probably
> have suitable modules in their catalogue.****
>
> ** **
>
> My 8935 E6380A was virtually new/unused when I acquired it, so I am very
> hesitant to hack into it.****
>
> ** **
>
> ** **
>
> Best regards,****
>
> Adam****
>
> ** **
>
> ** **
>
> ** **
>
> *From:* hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] *On Behalf
> Of *gchafee@...
> *Sent:* 25-Sep-13 11:54
> *To:* hp8924@yahoogroups.com
> *Subject:* [hp8924] 8935A (8935 E6380A ) units being used - or modified?**
> **
>
> ** **
>
>
>
>
> ****
>
> I have one of these 8935 E6380A units and have used it on and off, but was
> wondering if in the world of HP tinkerers, has anyone came up with any
> wondrous mods to either increase range or capabilities? I suspect it may
> use many of the same modules as eh other 8900 series service monitors, and
> therefore have the capacity for making it more useful.****
>
>
> For example, has anyone found a way to change the IF to have a more

> reasonable bandwidth ( right now it is 15KHZ)? A way to get it to use
> something like a 3kjhz, or better yet,,a DSP based programmable IF.
> Unfortunately, I suspect the Power-On Self Test would fail the unit if it
> was hardware modded. It would see the IF range is out of tolerance and fail
> unless there would be a way to re-write the eproms.****
>
>
> Any takers out there? Anyone with any cards that we could get a dump from
> that may be useful for activating some obscure function that could be
> useful for a standard Service Monitor?****
>
>
> I would love to f ind a way to get it to have full coverage from 100KHz to
> 2GHZ without the limit of 400KHZ on the low end and the odd break in the
> bands between 1GHZ and 1.7GHZ.****
>
>
> I know I could come up with a process to mix together signals externally
> and get a lower sensitivity unit, but that would take the usefulness out of
> what I would like to see.****
>
>
> How about it? Any takers?****
>
>
> Thanks,****
>
>
> Jerry****
>
>
>
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> ****
>
> ****
>
>
>

# 1655. RE: 8935A (8935 E6380A ) units being used - or modified?

Yahoo group: hp8924
Date: 2013-09-25 22:34:19 UTC
From: <fwbray@...>
Topic: 1652  Message: 1655

The receiver module can be replaced with the narrower bandwidth unit. The reference module can also be replaced to obtain greater stability. The total cost of replacing both modules (from Amtronix) is around $600.00.

The process is pretty easy, the most time-consuming part being removing and replacing the external and internal covers. If I recall correctly, the calibration data is automatically loaded when the receiver is changed. The reference module does require entering some data. The module I got from Amtronix came with a sheet giving the correct entries.

---In hp8924@yahoogroups.com, <hp8924@yahoogroups.com> wrote:

I have one of these 8935 E6380A units and have used it on and off, but was wondering if in the world of HP tinkerers, has anyone came up with any wondrous mods to either increase range or capabilities? I suspect it may use many of the same modules as eh other 8900 series service monitors, and therefore have the capacity for making it more useful.

For example, has anyone found a way to change the IF to have a more reasonable bandwidth ( right now it is 15KHZ)? A way to get it to use something like a 3kjhz, or better yet,,a DSP based programmable IF. Unfortunately, I suspect the Power-On Self Test would fail the unit if it was hardware modded. It would see the IF range is out of tolerance and fail unless there would be a way to re-write the eproms.

Any takers out there? Anyone with any cards that we could get a dump from that may be useful for activating some obscure function that could be useful for a standard Service Monitor?

I would love to find a way to get it to have full coverage from 100KHz to 2GHZ without the limit of 400KHZ on the low end and the odd break in the bands between 1GHZ and 1.7GHZ.

I know I could come up with a process to mix together signals externally and get a lower sensitivity unit, but that would take the usefulness out of what I would like to see.

How about it? Any takers?

Thanks,

Jerry

# 1656. RE: Re: [hp8924] Re: Modifying internal 3W attenuator (Assembly A4)

Yahoo group: hp8924
Date: 2013-09-26 00:30:29 UTC
From: <klyball@...>
Topic: 478  Message: 1656

You could request a sample from Anaren there is a link when you look at the component page.

---In hp8924@yahoogroups.com, <hp8924@yahoogroups.com> wrote:

Been on E-bay- Under antt.s-W8KQ

From: brad_k9mhz <bradknapp@...>
To: hp8924@yahoogroups.com
Sent: Wednesday, September 25, 2013 10:12 AM
Subject: [hp8924] Re: Modifying internal 3W attenuator (Assembly A4)

Know of a good source for that device? I'm having a heck of a time finding one.

Thanks,

Brad, K9MHZ

# 1657. RE: [hp8924] 8935A (8935 E6380A ) units being used - or modified?

Yahoo group: hp8924
Date: 2013-09-26 07:03:26 UTC
From: Adam Farson
Topic: 1652  Message: 1657
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Jerry,

As it happens, I have a duff 08920-61102 receiver module which I can open up so as to look inside. To the best of my knowledge, the module incorporates a crystal filter. I suspect that if there is a 15/30 kHz jumper, the IF filter will also need to be changed out. If this module has such a jumper, I shall post a photo in the group's "Files" section.

I am reluctant to open up the receiver module of my working 8935. Will keep you posted.

73, Adam VA7OJ/AB4OJ

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Gerald Chafee
Sent: 25-Sep-13 14:39
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] 8935A (8935 E6380A ) units being used - or modified?

Hi Adam,

I stand corrected.

I also have the 30KHz filter. My entry for 15KHz was the maximum I would wish for. Your thought of a 7.5 filter would be interesting.

I have not had access to a module to attempt to swap out, but I hope to have a second 8935 unit I might be able to play with. It would have the 30KHz filter though.

My thought is the 8935 goes though internal testing at start-up and presumably will test the IF to see if it is out of tolerance. If so, they idea may stop right there.

I may be wrong. If so, maybe there is a hack in the future to test. I am not sure if it uses a crystal filter combination, or some different way. I would think that since HP did not skimp on costs, they would go for what was best at the time.

I was told the current IF unit has some kind of jumper on it that states "30KHz or 15KHz". I am sure it is not as easy as changing a jumper.

I will let you know if I find anything.

Jerry

On Wed, Sep 25, 2013 at 5:08 PM, Adam Farson <farson@...> wrote:

Hi Jerry,

The standard IF's in the 8935 are 30 and 230 kHz. Did you replace the receiver module with an 08920-61102 receiver to get the 15 kHz IF?

If the instrument is to be used primarily for FM (16K0F3E), the 15 kHz IF is the minimum acceptable bandwidth. For 11K0F3E, a 7.5 kHz filter is best but the 15 kHz bandwidth will do in a pinch.

The spectrum analyser coverage starts at 1400 MHz, to cover the GPS band - but I do not know whether the synthesiser coverage can be extended.

You can use an external mixer without loss of sensitivity if it is preceded by a bandpass filter and low-noise preamp. Mini-Circuits probably have suitable modules in their catalogue.

My 8935 E6380A was virtually new/unused when I acquired it, so I am very hesitant to hack into it.

Best regards,

Adam

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of gchafee@...
Sent: 25-Sep-13 11:54
To: hp8924@yahoogroups.com
Subject: [hp8924] 8935A (8935 E6380A ) units being used - or modified?

I have one of these 8935 E6380A units and have used it on and off, but was wondering if in the world of HP tinkerers, has anyone came up with any wondrous mods to either increase range or capabilities? I suspect it may use many of the same modules as eh other 8900 series service monitors, and therefore have the capacity for making it more useful.

For example, has anyone found a way to change the IF to have a more reasonable bandwidth ( right now it is 15KHZ)? A way to get it to use something like a 3kjhz, or better yet,,a DSP based programmable IF. Unfortunately, I suspect the Power-On Self Test would fail the unit if it was hardware modded. It would see the IF range is out of tolerance and fail unless there would be a way to re-write the eproms.

Any takers out there? Anyone with any cards that we could get a dump from that may be useful for activating some obscure function that could be useful for a standard Service Monitor?

I would love to f ind a way to get it to have full coverage from 100KHz to 2GHZ without the limit of 400KHZ on the low end and the odd break in the bands between 1GHZ and 1.7GHZ.

I know I could come up with a process to mix together signals externally and get a lower sensitivity unit, but that would take the usefulness out of what I would like to see.

How about it? Any takers?

Thanks,

Jerry

# 1658. HP 8920A Failure

Yahoo group: hp8924
Date: 2013-09-26 12:33:22 UTC
From: <py8elo@...>
Topic: 1658  Message: 1658

Hi all,
I have an issue with my HP 8920A.
When I turn it on I get 2 error messages. Error 229 and Error 234. "Voltmeter Self calibration Failed. Error=229" and "RF input over power. Error =234"
The SA, Scope and SG works fine but the unit do not measure power.
Can somebody help me please?

Thanks in advance and best regards,

Silva.
PY8ELO

# 1659. Re: [hp8924] RE: 8935A (8935 E6380A ) units being used - or modified?

Yahoo group: hp8924
Date: 2013-09-26 13:52:05 UTC
From: Gerald Chafee
Topic: 1652  Message: 1659

That is interesting. I wonder how much just the receiver module is. I asked Amtronix once what the cost of the High Stab option was and they had stated at the time they did not show that as user replaceable. This must have changed.

They must get enough units in they cold test a module to see if they swap out with no errors. That was my big concern.

Also I wonder if there is a way to change something where it can decode other signals such a DPL ( although that is falling out of use).

I appreciate that you have the info that the modules do indeed swap out.

I have a unit with a High Stab oscillator on the way ( that is why I am saying I have another unit for testing). I would love to get the AY5 option ( I believe that is the right number for the Rubidium Oscillator time base) but those would be few and far between. However, it would be worth it to get the narrower band receiver module if the price is right ( or get a ad unit and swap crystal filters - or whatever it uses).

Jerry

On Wed, Sep 25, 2013 at 6:34 PM, <fwbray@mminternet.com> wrote:

> **
>
>
> The receiver module can be replaced with the narrower bandwidth unit. The
> reference module can also be replaced to obtain greater stability. The
> total cost of replacing both modules (from Amtronix) is around $600.00.
>
> The process is pretty easy, the most time-consuming part being removing
> and replacing the external and internal covers. If I recall correctly, the
> calibration data is automatically loaded when the receiver is changed. The
> reference module does require entering some data. The module I got from
> Amtronix came with a sheet giving the correct entries.
>
>
>
>
>
> ---In hp8924@yahoogroups.com, <hp8924@yahoogroups.com> wrote:
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> wondering if in the world of HP tinkerers, has anyone came up with any
> wondrous mods to either increase range or capabilities? I suspect it may
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> For example, has anyone found a way to change the IF to have a more
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> Unfortunately, I suspect the Power-On Self Test would fail the unit if it
> was hardware modded. It would see the IF range is out of tolerance and fail
> unless there would be a way to re-write the eproms.
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> Any takers out there? Anyone with any cards that we could get a dump from
> that may be useful for activating some obscure function that could be
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> I would love to find a way to get it to have full coverage from 100KHz to
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> bands between 1GHZ and 1.7GHZ.
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> I know I could come up with a process to mix together signals externally
> and get a lower sensitivity unit, but that would take the usefulness out of
> what I would like to see.
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>
> How about it? Any takers?
>
>
> Thanks,
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>
> Jerry
>
>
>

# 1660. RE: Re: [hp8924] RE: 8935A (8935 E6380A ) units being used - or modified?

Yahoo group: hp8924
Date: 2013-09-26 15:36:24 UTC
From: <fwbray@...>
Topic: 1652  Message: 1660

I can't give you the specific reference without a lot of searching, but I do recall that there are different part numbers for the filters on the wide and narrow receiver modules. I would assume that just like other receivers, there may well be other parts -- such as resistors and capacitors -- that have different values depending upon the bandwidth.

When I bought it some months ago, the receiver module was about $400, plus shipping. Rick at Amtronix once mentioned that he had a less expensive receiver that would work. I didn't pursue that topic with him and I don't know specifically what he had in mind. It might well be worth a phone call to Rick to discuss the options and the differences.

Although I can't swear to it without pulling the covers on both my 8924 and 8935 to check the part numbers, I think that I recall that the receiver in the 8924 is the one used to convert the 8935 to the narrower IF. Assuming this to be the case, you might well be able to find a cheap used 8924 and swap the receiver. You could then part-out the 8924. You would need to verify part numbers first, but I think that my memory is correct. This might be cheaper than buying the receiver from Amtronix, but of course you would have the shipping costs for the 8924.

I don't recall whether the 8924 reference module works in the 8935. If it does and if you were to swap those, you would need to read and make note of certain latch values from the 8924 and then enter them in the 8935 after swapping the modules. If you happened to be working with a "dead" 8924 and couldn't read the values, you could still calibrate it against a GPSDO to correctly set the latch values.

If you buy the reference from Amtronix, Rick does the calibration. Just for fun, after installing the new reference in my 8935, I decided to compare the calibration to my always on GPSDO. After letting the HP 8935 warm up for about 15 minutes, the fine latch value was slightly different than what Rick provided. After another half hour, I ran the calibration again and the fine value was the same as provided by Rick. He clearly takes the time to get an accurate value. I have since checked mine a few times against the GPSDO and it is still dead on.

You might wonder why I even bothered to change the reference in light of the fact that I use a GPSDO. I did it mainly so that I could be sure that the 8935 would be accurate in the field. Also, when my garage workshop is too hot in the summer, I have been known to temporarily setup the 8935 in the house when I want to work on a radio.

---In hp8924@yahoogroups.com, <hp8924@yahoogroups.com> wrote:

That is interesting. I wonder how much just the receiver module is. I asked Amtronix once what the cost of the High Stab option was and they had stated at the time they did not show that as user replaceable. This must have changed.

They must get enough units in they cold test a module to see if they swap out with no errors. That was my big concern.

Also I wonder if there is a way to change something where it can decode other signals such a DPL ( although that is falling out of use).

I appreciate that you have the info that the modules do indeed swap out.

I have a unit with a High Stab oscillator on the way ( that is why I am saying I have another unit for testing). I would love to get the AY5 option ( I believe that is the right number for the Rubidium Oscillator time base) but those would be few and far between. However, it would be worth it to get the narrower band receiver module if the price is right ( or get a ad unit and swap crystal filters - or whatever it uses).

Jerry

On Wed, Sep 25, 2013 at 6:34 PM, <fwbray@...> wrote:

The receiver module can be replaced with the narrower bandwidth unit. The reference module can also be replaced to obtain greater stability. The total cost of replacing both modules (from Amtronix) is around $600.00.

The process is pretty easy, the most time-consuming part being removing and replacing the external and internal covers. If I recall correctly, the calibration data is automatically loaded when the receiver is changed. The reference module does require entering some data. The module I got from Amtronix came with a sheet giving the correct entries.

---In hp8924@yahoogroups.com, <hp8924@yahoogroups.com> wrote:

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I know I could come up with a process to mix together signals externally and get a lower sensitivity unit, but that would take the usefulness out of what I would like to see.

How about it? Any takers?

Thanks,

Jerry

# 1661. RE: [hp8924] RE: 8935A (8935 E6380A ) units being used - or modified?

Yahoo group: hp8924
Date: 2013-09-26 17:39:18 UTC
From: Adam Farson
Topic: 1652  Message: 1661
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Jerry,

Amtronix have the high-stability reference module (08920-61192) in stock for $250. I saw Rick in Dayton last May and asked him about the receiver module; these normally go for $400. He may have some duff modules from which you may be able to create a working unit.

I purchased a 08920-61192 from a vendor in Hong Kong for $90, but have not tested it yet.

73, Adam VA7OJ/AB4OJ

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Gerald Chafee
Sent: 26-Sep-13 06:52
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] RE: 8935A (8935 E6380A ) units being used - or modified?

That is interesting. I wonder how much just the receiver module is. I asked Amtronix once what the cost of the High Stab option was and they had stated at the time they did not show that as user replaceable. This must have changed.

They must get enough units in they cold test a module to see if they swap out with no errors. That was my big concern.

Also I wonder if there is a way to change something where it can decode other signals such a DPL ( although that is falling out of use).

I appreciate that you have the info that the modules do indeed swap out.

I have a unit with a High Stab oscillator on the way ( that is why I am saying I have another unit for testing). I would love to get the AY5 option ( I believe that is the right number for the Rubidium Oscillator time base) but those would be few and far between. However, it would be worth it to get the narrower band receiver module if the price is right ( or get a ad unit and swap crystal filters - or whatever it uses).

Jerry

On Wed, Sep 25, 2013 at 6:34 PM, <fwbray@...> wrote:

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I know I could come up with a process to mix together signals externally and get a lower sensitivity unit, but that would take the usefulness out of what I would like to see.

How about it? Any takers?

Thanks,

Jerry

# 1662. Re: Re: [hp8924] RE: 8935A (8935 E6380A ) units being used - or modified?

Yahoo group: hp8924
Date: 2013-09-26 20:29:15 UTC
From: Gerald Chafee
Topic: 1652  Message: 1662

Actually there have been some 8924's from Pennsylvania that have sold around $300-$400 in working ( or close to fully working) state. The shipping is reasonable - $40 or so.

I am wondering what most people are trying to use now days as far as service monitor from this vintage. I know that an IFR will set you back some major money.

My other concern besides the fact that the 8935's have the wider bandwidths (and are kind of heavy), is they do not seem to have any kind of tools for decoding sub-audio, or digital squelch or paging options ( such as PL, DPL, etc.) although some of these are quickly becoming no longer used.

It is unfortunate that with the internal "digital CDMA" nature of the unit, that someone could not come up with a way to program it to deal with spread spectrum or even make it into a scanner /digital demodulator. I have seen where other companies have written external programs that will turn it into a "scanner" or sorts, but I am not sure how useful that is. I suspect it cannot decode trunking or (pie in the sky) Digital Trunking systems.

I will have to keep my eyes out for a used 8924. I know that there are probably a number of them where someone accidently transmitted into one with high power and fried the attenuator. Fixing a unit that was transmitted into is probably not worth it for most people and they would most likely be happy to get some money back.

You have not seen a document that gives the flow diagram with the modules for the two units have you? It would be nice to see what is interchangeable. I am surprised that someone has not come up with a mod for the 30KHz if for the 8935, unless a swap with a 8924 is the fix!!

Thanks,

Jerry

On Thu, Sep 26, 2013 at 11:36 AM, <fwbray@...> wrote:

> **
>
>
> I can't give you the specific reference without a lot of searching, but I
> do recall that there are different part numbers for the filters on the wide
> and narrow receiver modules. I would assume that just like other
> receivers, there may well be other parts -- such as resistors and
> capacitors -- that have different values depending upon the bandwidth.
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> Jerry
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> On Wed, Sep 25, 2013 at 6:34 PM, <fwbray@...> wrote:
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> Unfortunately, I suspect the Power-On Self Test would fail the unit if it
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> what I would like to see.
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> How about it? Any takers?
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> Thanks,
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>
> Jerry
>
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>
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# 1663. 8924 not comming out of encode mode

Yahoo group: hp8924
Date: 2013-09-26 21:50:46 UTC
From: Ralph Mowery
Topic: 1652  Message: 1663

A while back someone asked why his 8924 would not come out of the encode mode if say he set it to send a sequence of DTMF.

To get the RX Screen to go back to where you can set it other than Start/Stop, go back to the Encode screen and change it from DTMF (if that is what you were sending)  to Function Generator.

# 1664. RE: Re: [hp8924] RE: 8935A (8935 E6380A ) units being used - or modified?

Yahoo group: hp8924
Date: 2013-09-26 23:02:52 UTC
From: Adam Farson
Topic: 1652  Message: 1664

Hi Jerry,

As promised, I have taken a photo of the 08920-61102 receiver board, showing the two IGF filters FL1A and FL1B. The photo is in the VA7OJ album in the groups "Photos" section.

If you can locate a duff board, you should be able to move these filters onto the receiver board in your 8935.

73, Adam VA7OJ/AB4OJ

# 1665. (no subject)

Yahoo group: hp8924
Date: 2013-09-27 01:34:40 UTC
From: Gabriel R. - TELECELL T&M
Topic: 1665  Message: 1665

Silva,

Do you did the rf diagnostics? what´s the results? I believe that a defective module is the cause of conflict: Disconnect A19 (measurementes board), then cycle the start process. Look for (maybe) a new error code. Repeat without A23 (RF Input assy).

I live in são paulo and can write direct to me.

Gabriel Avila

(gravila@...)

# 1666. RE: 8924 not comming out of encode mode

Yahoo group: hp8924
Date: 2013-09-27 10:49:52 UTC
From: <nzpepping@...>
Topic: 1652  Message: 1666

That was me, and I only figured that bit out only today!! :-) Good timing. Thanks

---In hp8924@yahoogroups.com, <hp8924@yahoogroups.com> wrote:

A while back someone asked why his 8924 would not come out of the encode mode if say he set it to send a sequence of DTMF.

To get the RX Screen to go back to where you can set it other than Start/Stop, go back to the Encode screen and change it from DTMF (if that is what you were sending) to Function Generator.

# 1667. Re: [hp8924] RE: 8924 not comming out of encode mode

Yahoo group: hp8924
Date: 2013-09-27 14:30:16 UTC
From: Ralph Mowery
Topic: 1652  Message: 1667

Funny how things work out.  When you origionally posted the problem, I could not get  my 8924 to do it.  Guess that I was setting it back to the function generator before I left that screen.

The other day I was sending out a few DTMF signals to test a repeater I was working on. When I got back to the RX screen there was that problem. Took about 10 minuits to think through what I had done ands how to undo it.  Just hapened to remember someone had asked about that.

>_____
>From: "nzpepping@..." <nzpepping@...>
>To: hp8924@yahoogroups.com
>Sent: Friday, September 27, 2013 6:49 AM
>Subject: [hp8924] RE: 8924 not comming out of encode mode
>
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# 1668. Re: Re: [hp8924] RE: 8935A (8935 E6380A ) units being used - or modified?

Yahoo group: hp8924
Date: 2013-09-27 20:56:15 UTC
From: Gerald Chafee
Topic: 1652  Message: 1668

Adam,

Thanks for the picts. I wish I could figure how to save the hi res picture from the group album. It appears there would normally be a cover over the filter (I think).

I am not sure where I would find a defective 8924 receiver module, but I also wonder if a good 15KHz/280KHz receiver module could just be swapped out, or would it fail the internal self tests since the 8935 would be expecting a 30KHz bandwidth?

I am not sure if the module contains calibration information for it if you are to swap it out. I would think that changing an individual part (such as a crystal) could throw of the calibration of just that section.

Also if I were to change out the crystal, there looks to be a trimmer cap nearby, and an adjustable transformer/choke. Would these need to be adjusted or changed ( I would guess not too much)?

Maybe I can get one of the "defective" 8924C units I see on eBay and part it out. I would guess (hope) the receiver is not the most common part to go bad.

I can get an entire 8924C unit for less than buying a 15KHz/280KHz 08920-61282 receiver module from Amtronix ( although I have all good things to say about the company - just wish the prices were lower).

I would hope that someone would not swap all bad modules into a defective 8924C to get money out of it while fixing others. I am not sure it would be worth it for these companies selling older HP gear to swap out modules.

Jerry

On Thu, Sep 26, 2013 at 7:02 PM, Adam Farson <farson@...> wrote:

> **
>
>
> Hi Jerry,****
>
> * *
>
> As promised, I have taken a photo of the 08920-61102 receiver board,
> showing the two IGF filters FL1A and FL1B. The photo is in the VA7OJ album
> in the groups “Photos” section.****
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> ** **
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> If you can locate a duff board, you should be able to move these filters
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> ** **
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> 73, Adam VA7OJ/AB4OJ****
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> ** **
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# 1669. RE: 8935A (8935 E6380A ) units being used - or modified?

Yahoo group: hp8924
Date: 2013-09-27 21:03:13 UTC
From: <nzpepping@...>
Topic: 1652  Message: 1669

I started a new job, and hadn't done much with with these machines. The basics I do understand. It had been 'set up' in a fashion so started reading about them, and eventually got to this forum/user group.

Having had more of a play [yes whilst at work :-)], I have since changed way I check CTCSS tones.
In the TX screen, I set the audio filters to 'Filter 1' = 50Hz HPF and 'Filter 2' to 300Hz LPF. This way any modulation is not measured. Quick to change, no special set up.

I found the "stop" when I was trying to use the Decoder for 5-tone. Got back to RX screen, and saw it. Got out of Decoder mode, and all was well.
Prior to this I reset all settings, which helped although annoying, because anything that was already set up has to be entered again. A minor inconvenience.

I have also started using a microphone.
Despite people using a 'special' locking type DIN-8 connector, I used the cheaper non-locking type. I have found the socket to be quite captive, and you're never going to be far away from the unit anyway, so it becomes a moot point.
I set up the Auto switch over mode so realistic interactive testing is now automated. ie a typical transmit, listen, 'out' situation.

---In hp8924@yahoogroups.com, <ku4pt@...> wrote:

Funny how things work out. When you origionally posted the problem, I could not get my 8924 to do it. Guess that I was setting it back to the function generator before I left that screen.

The other day I was sending out a few DTMF signals to test a repeater I was working on. When I got back to the RX screen there was that problem. Took about 10 minuits to think through what I had done ands how to undo it. Just hapened to remember someone had asked about that.

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To: hp8924@yahoogroups.com
Sent: Friday, September 27, 2013 6:49 AM
Subject: [hp8924] RE: 8924 not comming out of encode mode

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# 1670. RE: Re: [hp8924] RE: 8935A (8935 E6380A ) units being used - or modified?

Yahoo group: hp8924
Date: 2013-09-27 21:48:16 UTC
From: Adam Farson
Topic: 1652  Message: 1670
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Jerry,

Just sent you the hi-res photo direct. It is a 2MB file.

Good question on the 8935 identifying the IF BW. You may wish to call or e-mail Rick at Amtronix regarding this. In fact, Rick may be willing to let you have a defective module with the 15 kHz filters at a very reasonable price.

As for the ramifications of changing out the actual crystal filters, I do not know the answer. I have never seen documentation for the individual boards. The Assembly Level Repair manual E6380-90015 lists the complete modules only by reference designator and part number.

In practice, I have not found the 30 kHz IF bandwidth to be a disadvantage when using the 8935 as an FM service monitor. It is certainly a huge improvement over my ancient Cushman CE-31A (now sold.)

73, Adam VA7OJ/AB4OJ

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Gerald Chafee
Sent: 27-Sep-13 13:56
To: hp8924@yahoogroups.com
Subject: Re: Re: [hp8924] RE: 8935A (8935 E6380A ) units being used - or modified?

Adam,

Thanks for the picts. I wish I could figure how to save the hi res picture from the group album. It appears there would normally be a cover over the filter (I think).

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I am not sure if the module contains calibration information for it if you are to swap it out. I would think that changing an individual part (such as a crystal) could throw of the calibration of just that section.

Also if I were to change out the crystal, there looks to be a trimmer cap nearby, and an adjustable transformer/choke. Would these need to be adjusted or changed ( I would guess not too much)?

Maybe I can get one of the "defective" 8924C units I see on eBay and part it out. I would guess (hope) the receiver is not the most common part to go bad.

I can get an entire 8924C unit for less than buying a 15KHz/280KHz 08920-61282 receiver module from Amtronix ( although I have all good things to say about the company - just wish the prices were lower).

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Jerry

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If you can locate a duff board, you should be able to move these filters onto the receiver board in your 8935.

73, Adam VA7OJ/AB4OJ

# 1671. RE: RE: Re: [hp8924] RE: 8935A (8935 E6380A ) units being used - or modified?

Yahoo group: hp8924
Date: 2013-09-28 08:32:13 UTC
From: <zl1cvd@...>
Topic: 1652  Message: 1671

The 8935, 8920, 8921, 8922, 8924, E8285A, etc are all very similar and if your careful, modules can be swapped from model to model. ie the spectrum analyzer from the GSM 8922 works fine in an CDMA E8285A despite having a different bandwith. Reference modules & more can be swapped. If your worried about calibration data on a module, check the block diagrams of the 8920 & 8924 assembly level repair guides. It shows which modules have cal data (ROM) along with a table showing what HP says can be swapped out without cal data. For a circuit of the receiver module 08920-61102, check the component level packet info HP released for the 8920 - pretty sure its the same or very similar to 08920-61828. As for modifying the firmware, good luck. From what I can work out its a real time operating system called PSOS by SOFTWARE COMPONENTS GROUP, INC. who I think are now defunct, sold, merged or something. There is a wiki site with info. The real problem as I see it is there are at 4 or 5 sub-systems - each has its own firmware and processor (main, DSP, cell site 1 &2 & protocol). 73s chris zl1cvd

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Sent: 27-Sep-13 13:56
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Subject: Re: Re: [hp8924] RE: 8935A (8935 E6380A ) units being used - or modified?

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# 1672. 8924C CLIP

Yahoo group: hp8924
Date: 2013-09-29 17:09:22 UTC
From: <willard561@...>
Topic: 1672  Message: 1672

I tried to upload a copy of the 8924 CLIP, but Yahoo will not let me. It may be a size related thing, it's 11 megs. I'd like to see it included in our files here.
Bill Higdon

# 1673. Re: RE: Re: [hp8924] RE: 8935A (8935 E6380A ) units being used - or modified?

Yahoo group: hp8924
Date: 2013-09-30 18:11:13 UTC
From: Gerald Chafee
Topic: 1652  Message: 1673

The 8935A would be in this group where modules could be swapped around?

I do understand the issues with trying to decompile /recompile an assembly level language for the 68000 series processors. I had a laser printer that used a different assembly language and I foolishly thought I could learn enough to take the software apart. I failed miserably. I can imagine the complexity of having these different subsystems with their own little OS's running at the same time.

I suppose we should be happy that the different units were made with mostly the same type of modules, but maybe slightly different capabilities.

I don't suppose they made an AF generator with PL codes and other types of audio coding built in that would swap right in to a 8935?

Thanks,

Jerry

On Sat, Sep 28, 2013 at 4:32 AM, <zl1cvd@...> wrote:

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> analyzer from the GSM 8922 works fine in an CDMA E8285A despite having a
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> *From:* hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] *On Behalf
> Of *Gerald Chafee
> *Sent:* 27-Sep-13 13:56
> *To:* hp8924@yahoogroups.com
> *Subject:* Re: Re: [hp8924] RE: 8935A (8935 E6380A ) units being used -
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# 1674. Re: RE: Re: [hp8924] RE: 8935A (8935 E6380A ) units being used - or modified?

Yahoo group: hp8924
Date: 2013-10-01 21:08:05 UTC
From: Gerald Chafee
Topic: 1652  Message: 1674

HI all again,

Has anyone found a software program that works on the 8935A that will make it work like a scanner? I understand there was a company that made a software program that worked on a PC and HPIB adapter that tied into a standard 8920.

I would not think it would be much of a stretch to get something that would work as a scanner , or could increase the capabilities of all of the different 8900 series by performing such things as automated testing, histograms, etc.?

On Mon, Sep 30, 2013 at 2:11 PM, Gerald Chafee <gchafee@...> wrote:

> The 8935A would be in this group where modules could be swapped around?
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> level language for the 68000 series processors. I had a laser printer that
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# 1675. Re: GBS-8220 setup

Yahoo group: hp8924
Date: 2013-10-01 21:30:33 UTC
From: fkenneth@att.net
Topic: 1581 Message: 1675

Howdy,

Working on the 8220 setup for my 8924C, posted pix if you could look at them.

Best regards, Scott

--- In hp8924@yahoogroups.com, "wb7dmx@..." <shop2wb7dmx@...> wrote:
>
> use only P3 for input.
> connect the RGB wires to listed pins
> use the LM-1881 sync sep.
> only pin one goes the the sync of P3.
> do not use the vert sync on pin 3 of the LM1881.
> then you should be able to go into the geomemtry menu to center the display.
>
> also add the 3 33 k resistors to C29, C32, and C36 with a 100K pot center, outside leads of the pot go to R1 for the 3.2 volt reg. and the other side of the pot goes to ground,
>
> in the photo section there is a full description and pictures of how to connect it up.
>
> do NOT install the 50 k resistors, there not needed.
>
> that's it.
>

# 1676. Re: RE: Re: [hp8924] RE: 8935A (8935 E6380A ) units being used - or modified?

Yahoo group: hp8924
Date: 2013-10-01 21:40:29 UTC
From: Robert Atkinson
Topic: 1652  Message: 1676

Hi Gerald,
The HP 11087E opt100 "RF Tools" software includes a scanner program, but I can't confirm if it will run on the 8935A. The swept measurements are built into the 8935A. The files are in the archive if you have a suitable card. I sell programmed flash cards on ebay (item 261291816834) for 50 UK Pounds, but offere a discount for list members. You can down load the 11807 manual from the Agilent website <
http://cp.literature.agilent.com/litweb/pdf/11807-90141.pdf >

Robert G8RPI.

---
From: Gerald Chafee <gchafee@...>
To: hp8924@yahoogroups.com
Sent: Tuesday, 1 October 2013, 22:08
Subject: Re: RE: Re: [hp8924] RE: 8935A (8935 E6380A ) units being used - or modified?

HI all again,

Has anyone found a software program that works on the 8935A that will make it work like a scanner? I understand there was a company that made a software program that worked on a PC and HPIB adapter that tied into a standard 8920.

I would not think it would be much of a stretch to get something that would work as a scanner , or could increase the capabilities of all of the different 8900 series by performing such things as automated testing, histograms, etc.?

On Mon, Sep 30, 2013 at 2:11 PM, Gerald Chafee <gchafee@...> wrote:

The 8935A would be in this group where modules could be swapped around?
>
>I do understand the issues with trying to decompile /recompile an assembly level language for the 68000 series processors. I had a laser printer that used a different assembly language and I foolishly thought I could learn enough to take the software apart. I failed miserably. I can imagine the complexity of having these different subsystems with their own little OS's running at the same time.
>
>I suppose we should be happy that the different units were made with mostly the same type of modules, but maybe slightly different capabilities.
>
>I don't suppose they made an AF generator with PL codes and other types of audio coding built in that would swap right in to a 8935?
>
>Thanks,
>
>Jerry

>
>
>
>On Sat, Sep 28, 2013 at 4:32 AM, <zl1cvd@...> wrote:
>
>
>>
>>The 8935, 8920, 8921, 8922, 8924, E8285A, etc are all very similar and if your careful, modules can be swapped from model to model. ie the spectrum analyzer from the GSM 8922 works fine in an CDMA E8285A despite having a different bandwith. Reference modules & more can be swapped. If your worried about calibration data on a module, check the block diagrams of the 8920 & 8924 assembly level repair guides. It shows which modules have cal data (ROM) along with a table showing what HP says can be swapped out without cal data. For a circuit of the receiver module 08920-61102, check the component level packet info HP released for the 8920 - pretty sure its the same or very similar to 08920-61828. As for modifying the firmware, good luck. From what I can work out its a real time operating system called PSOS by SOFTWARE COMPONENTS GROUP, INC. who I think are now defunct, sold, merged or something. There is a wiki site with info. The real problem as I see it is there are at 4 or 5 sub-systems - each has its own firmware and processor (main, DSP, cell site 1 &2 & protocol). 73s chris zl1cvd
>>
>>
>>---In hp8924@yahoogroups.com, <hp8924@yahoogroups.com> wrote:
>>
>>
>>Hi Jerry,
>>
>>Just sent you the hi-res photo direct. It is a 2MB file.
>>
>>Good question on the 8935 identifying the IF BW. You may wish to call or e-mail Rick at Amtronix regarding this. In fact, Rick may be willing to let you have a defective module with the 15 kHz filters at a very reasonable price.
>>
>>As for the ramifications of changing out the actual crystal filters, I do not know the answer. I have never seen documentation for the individual boards. The Assembly Level Repair manual E6380-90015 lists the complete modules only by reference designator and part number.
>>
>>In practice, I have not found the 30 kHz IF bandwidth to be a disadvantage when using the 8935 as an FM service monitor. It is certainly a huge improvement over my ancient Cushman CE-31A (now sold.)
>>
>>73, Adam VA7OJ/AB4OJ
>>
>>
>>
>>From:hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Gerald Chafee
>>Sent: 27-Sep-13 13:56
>>To: hp8924@yahoogroups.com
>>Subject: Re: Re: [hp8924] RE: 8935A (8935 E6380A ) units being used - or modified?

>>
>>
>>
>>
>>
>>Adam,
>>
>>Thanks for the picts. I wish I could figure how to save the hi res picture from the group album. It appears there would normally be a cover over the filter (I think).
>>
>>I am not sure where I would find a defective 8924 receiver module, but I also wonder if a good 15KHz/280KHz receiver module could just be swapped out, or would it fail the internal self tests since the 8935 would be expecting a 30KHz bandwidth?
>>
>>I am not sure if the module contains calibration information for it if you are to swap it out. I would think that changing an individual part (such as a crystal) could throw of the calibration of just that section.
>>
>>Also if I were to change out the crystal, there looks to be a trimmer cap nearby, and an adjustable transformer/choke. Would these need to be adjusted or changed ( I would guess not too much)?
>>
>>Maybe I can get one of the "defective" 8924C units I see on eBay and part it out. I would guess (hope) the receiver is not the most common part to go bad.
>>
>>I can get an entire 8924C unit for less than buying a 15KHz/280KHz 08920-61282 receiver module from Amtronix ( although I have all good things to say about the company - just wish the prices were lower).
>>
>>I would hope that someone would not swap all bad modules into a defective 8924C to get money out of it while fixing others. I am not sure it would be worth it for these companies selling older HP gear to swap out modules.
>>
>>Jerry
>>
>>On Thu, Sep 26, 2013 at 7:02 PM, Adam Farson <farson@...> wrote:
>>
>>Hi Jerry,
>>
>>As promised, I have taken a photo of the 08920-61102 receiver board, showing the two IGF filters FL1A and FL1B. The photo is in the VA7OJ album in the groups “Photos” section.
>>
>>If you can locate a duff board, you should be able to move these filters onto the receiver board in your 8935.
>>
>>
>>73, Adam VA7OJ/AB4OJ
>>
>>
>>

>>
>>
>>
>>
>

# 1677. Re: GBS-8220 setup

Yahoo group: hp8924
Date: 2013-10-01 21:57:54 UTC
From: wb7dmx@att.net
Topic: 1581  Message: 1677

that's interesting, first, you do not have the gbs 8220 board, it is the 8200. also it is a different board made by who ?. it may have different software installed in the rom chip. also it may also be a copy of the original board.

--- In hp8924@yahoogroups.com, "fkenneth@..." <fkenneth@...> wrote:
>
> Howdy,
>
> Working on the 8220 setup for my 8924C, posted pix if you could look at them.
>
> Best regards, Scott
>
> --- In hp8924@yahoogroups.com, "wb7dmx@" <shop2wb7dmx@> wrote:
> >
> > use only P3 for input.
> > connect the RGB wires to listed pins
> > use the LM-1881 sync sep.
> > only pin one goes the the sync of P3.
> > do not use the vert sync on pin 3 of the LM1881.
> > then you should be able to go into the geomemtry menu to center the display.
> >
> > also add the 3 33 k resistors to C29, C32, and C36 with a 100K pot center, outside leads of the pot go to R1 for the 3.2 volt reg. and the other side of the pot goes to ground,
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> > in the photo section there is a full description and pictures of how to connect it up.
> >
> > do NOT install the 50 k resistors, there not needed.
> >
> > that's it.
> >
>

# 1678. Re: [hp8924] Re: GBS-8220 setup

Yahoo group: hp8924
Date: 2013-10-01 22:06:53 UTC
From: SCOTT KENNETH
Topic: 1581  Message: 1678

This board came from Moncotech http://www.ebay.com/itm/321170765324?ssPageName=STRK:MEWNX:IT&_trksid=p3984.m1497.l2649

I understand that the access to the Geometry menu is limited by the Vert Sync use.  How did you get past this on your conversion ?

---
From: "wb7dmx@..." <wb7dmx@...>
To: hp8924@yahoogroups.com
Sent: Tuesday, October 1, 2013 5:57 PM
Subject: [hp8924] Re: GBS-8220 setup

that's interesting, first, you do not have the gbs 8220 board, it is the 8200. also it is a different board made by who ?. it may have different software installed in the rom chip. also it may also be a copy of the original board.

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> >
> > do NOT install the 50 k resistors, there not needed.
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> > that's it.
> >
>

# 1679. Re: GBS-8220 setup

Yahoo group: hp8924
Date: 2013-10-01 22:45:53 UTC
From: wb7dmx@att.net
Topic: 1581  Message: 1679

very happy that you got yours working good.
your board is a different color, mine is red, and yours is green.
it looks like there is many different copies of this board, I did buy the original board and did not get it working right, so I sent it back and bought the one I now have.
I am surprised that yours is working with the input port your using as I am told that it will not work with a composite signal that the 8924c uses.
so it is interesting how yours is working.

the description of how I connected everything is in the photo section, and as you can see, it is totally different than yours.

--- In hp8924@yahoogroups.com, SCOTT KENNETH <fkenneth@...> wrote:
>
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>
>
> _____
> From: "wb7dmx@..." <wb7dmx@...>
> To: hp8924@yahoogroups.com
> Sent: Tuesday, October 1, 2013 5:57 PM
> Subject: [hp8924] Re: GBS-8220 setup
>
>
>
> Â
> that's interesting, first, you do not have the gbs 8220 board, it is the 8200. also it is a different board made by who ?. it may have different software installed in the rom chip. also it may also be a copy of the original board.
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> --- In hp8924@yahoogroups.com, "fkenneth@" <fkenneth@> wrote:
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> > Howdy,
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> > Best regards, Scott
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> > > do NOT install the 50 k resistors, there not needed.
> > >
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> > >
> >
>

# 1680. Re: [hp8924] Re: GBS-8220 setup

Yahoo group: hp8924
Date: 2013-10-01 22:55:22 UTC
From: SCOTT KENNETH
Topic: 1581  Message: 1680

Working except for the horizontal width, it has cut off the left side of the image.  I would like to know how to get into the Geometry menu.  I can access any other menu without a problem.

_____
From: "wb7dmx@..." <wb7dmx@...>
To: hp8924@yahoogroups.com
Sent: Tuesday, October 1, 2013 6:45 PM
Subject: [hp8924] Re: GBS-8220 setup

very happy that you got yours working good.
your board is a different color, mine is red, and yours is green.
it looks like there is many different copies of this board, I did buy the original board and did not get it working right, so I sent it back and bought the one I now have.
I am surprised that yours is working with the input port your using as I am told that it will not work with a composite signal that the 8924c uses.
so it is interesting how yours is working.

the description of how I connected everything is in the photo section, and as you can see, it is totally different than yours.

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> I understand that the access to the Geometry menu is limited by the Vert Sync use. Â How did you get past this on your conversion ?
>
>
> _____
> From: "wb7dmx@..." <wb7dmx@...>
> To: hp8924@yahoogroups.com
> Sent: Tuesday, October 1, 2013 5:57 PM
> Subject: [hp8924] Re: GBS-8220 setup
>
>
>
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> that's interesting, first, you do not have the gbs 8220 board, it is the 8200. also it is a different board made by who ?. it may have different software installed in the rom chip. also it may also be a copy of the original board.
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> --- In hp8924@yahoogroups.com, "fkenneth@" <fkenneth@> wrote:
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> > > also add the 3 33 k resistors to C29, C32, and C36 with a 100K pot center, outside leads of the pot go to R1 for the 3.2 volt reg. and the other side of the pot goes to ground,
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> > > do NOT install the 50 k resistors, there not needed.
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> > > that's it.
> > >
> >
>

# 1681. Re: GBS-8220 setup

Yahoo group: hp8924
Date: 2013-10-01 23:07:38 UTC
From: wb7dmx@att.net
Topic: 1581  Message: 1681

```
oh, sorry, I miss understood you.
you have to build it exactly as I did.
you should use the lm1881 chip.
and use the p3 input as it shows in my pictures, it will not work any other way.
you will not be able to get into the geometry menu with it wired any other way.
```

--- In hp8924@yahoogroups.com, SCOTT KENNETH <fkenneth@...> wrote:
>
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>
> _____
> From: "wb7dmx@..." <wb7dmx@...>
> To: hp8924@yahoogroups.com
> Sent: Tuesday, October 1, 2013 6:45 PM
> Subject: [hp8924] Re: GBS-8220 setup
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>
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> > To: hp8924@yahoogroups.com

> > Sent: Tuesday, October 1, 2013 5:57 PM
> > Subject: [hp8924] Re: GBS-8220 setup
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> >
>

# 1682. Re: [hp8924] Re: GBS-8220 setup

Yahoo group: hp8924
Date: 2013-10-01 23:10:53 UTC
From: SCOTT KENNETH
Topic: 1581  Message: 1682

OK thanks, I will pursue that track.  Best regards,  Scott

---
From: "wb7dmx@..." <wb7dmx@...>
To: hp8924@yahoogroups.com
Sent: Tuesday, October 1, 2013 7:07 PM
Subject: [hp8924] Re: GBS-8220 setup

oh, sorry, I miss understood you.
you have to build it exactly as I did.
you should use the lm1881 chip.
and use the p3 input as it shows in my pictures, it will not work any other way.
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# 1683. RE: RE: Re: [hp8924] RE: 8935A (8935 E6380A ) units being used - or modified?

Yahoo group: hp8924
Date: 2013-10-02 04:06:26 UTC
From: Adam Farson
Topic: 1652  Message: 1683
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Bob,

In fact I have one of your HP 11807E Opt. 100 cards. The only program which will run on the 8935 is SAVRCL. The others crash with overflow errors. Is there a way around that?

73, Adam VA7OJ/AB4OJ

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Robert Atkinson
Sent: 1-Oct-13 14:40
To: hp8924@yahoogroups.com
Cc: gchafee@gmail.com
Subject: Re: RE: Re: [hp8924] RE: 8935A (8935 E6380A ) units being used - or modified?

Hi Gerald,

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http://cp.literature.agilent.com/litweb/pdf/11807-90141.pdf >

Robert G8RPI.

---

From: Gerald Chafee <gchafee@...>
To: hp8924@...m
Sent: Tuesday, 1 October 2013, 22:08
Subject: Re: RE: Re: [hp8924] RE: 8935A (8935 E6380A ) units being used - or modified?

HI all again,

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Thanks,

Jerry

On Sat, Sep 28, 2013 at 4:32 AM, <zl1cvd@...> wrote:

The 8935, 8920, 8921, 8922, 8924, E8285A, etc are all very similar and if your careful, modules can be swapped from model to model. ie the spectrum analyzer from the GSM 8922 works fine in an CDMA E8285A despite having a different bandwith. Reference modules & more can be swapped. If your worried about calibration data on a module, check the block diagrams of the 8920 & 8924 assembly level repair guides. It shows which modules have cal data (ROM) along with a table showing what HP says can be swapped out without cal data. For a circuit of the receiver module 08920-61102, check the component level packet info HP released for the 8920 - pretty sure its the same or very similar to 08920-61828. As for modifying the firmware, good luck. From what I can work out its a real time operating system called PSOS by SOFTWARE COMPONENTS GROUP, INC. who I think are now defunct, sold, merged or something. There is a wiki site with info. The real problem as I see it is there are at 4 or 5 sub-systems - each has its own firmware and processor (main, DSP, cell site 1 &2 & protocol). 73s chris zl1cvd

---In hp8924@yahoogroups.com, <hp8924@yahoogroups.com> wrote:

Hi Jerry,

Just sent you the hi-res photo direct. It is a 2MB file.

Good question on the 8935 identifying the IF BW. You may wish to call or e-mail Rick at Amtronix regarding this. In fact, Rick may be willing to let you have a defective module with the 15 kHz filters at a very reasonable price.

As for the ramifications of changing out the actual crystal filters, I do not know the answer. I have never seen documentation for the individual boards. The Assembly Level Repair manual E6380-90015 lists the complete modules only by reference designator and part number.

In practice, I have not found the 30 kHz IF bandwidth to be a disadvantage when using the 8935 as an FM service monitor. It is certainly a huge improvement over my ancient Cushman CE-31A (now sold.)

73, Adam VA7OJ/AB4OJ

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Gerald Chafee
Sent: 27-Sep-13 13:56

To: hp8924@yahoogroups.com
Subject: Re: Re: [hp8924] RE: 8935A (8935 E6380A ) units being used - or modified?

Adam,

Thanks for the picts. I wish I could figure how to save the hi res picture from the group album. It appears there would normally be a cover over the filter (I think).

I am not sure where I would find a defective 8924 receiver module, but I also wonder if a good 15KHz/280KHz receiver module could just be swapped out, or would it fail the internal self tests since the 8935 would be expecting a 30KHz bandwidth?

I am not sure if the module contains calibration information for it if you are to swap it out. I would think that changing an individual part (such as a crystal) could throw of the calibration of just that section.

Also if I were to change out the crystal, there looks to be a trimmer cap nearby, and an adjustable transformer/choke. Would these need to be adjusted or changed ( I would guess not too much)?

Maybe I can get one of the "defective" 8924C units I see on eBay and part it out. I would guess (hope) the receiver is not the most common part to go bad.

I can get an entire 8924C unit for less than buying a 15KHz/280KHz 08920-61282 receiver module from Amtronix ( although I have all good things to say about the company - just wish the prices were lower).

I would hope that someone would not swap all bad modules into a defective 8924C to get money out of it while fixing others. I am not sure it would be worth it for these companies selling older HP gear to swap out modules.

Jerry

On Thu, Sep 26, 2013 at 7:02 PM, Adam Farson <farson@...> wrote:

Hi Jerry,

As promised, I have taken a photo of the 08920-61102 receiver board, showing the two IGF filters FL1A and FL1B. The photo is in the VA7OJ album in the groups “Photos” section.

If you can locate a duff board, you should be able to move these filters onto the receiver board in your 8935.

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# 1684. Re: RE: Re: [hp8924] RE: 8935A (8935 E6380A ) units being used - or modified?

Yahoo group: hp8924
Date: 2013-10-02 17:25:19 UTC
From: Gerald Chafee
Topic: 1652  Message: 1684

Just found the manual for the "Component Level Information Packet" and realized that pretty much all of the schematics and parts diagrams for most of the modules that would be used by any of us as a service monitor are there and in an easy to understand format.
I am thankful that the information was provided to find this manual. Although it was designed for the HP8920, as far as I can see almost all the standard modules are in this manual and available for repair to the component level as long as the person doing so has a good understanding of electronics.

I am not sure everyone has the URL for this manual, but I would highly recommend that anyone that does not have it, download it from the Agilent website.

here is the URL:

http://www.home.agilent.com/upload/cmc_upload/All/8920_Component_Level_Information_Packet.pdf

Now that I can see what is module A16 in this unit ( the receiver board), I am less sure I wish to try to finds a bad module and swap the filter parts over. The parts are easy enough ( probably changing the 2 crystals would be enough) but tuning it for the proper bandwidth shaping would be more difficult.

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> 73, Adam VA7OJ/AB4OJ
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>
> *From:* hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] *On Behalf
> Of *Gerald Chafee
> *Sent:* 27-Sep-13 13:56
> *To:* hp8924@yahoogroups.com
> *Subject:* Re: Re: [hp8924] RE: 8935A (8935 E6380A ) units being used -
> or modified?
>
>

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>
> Adam,
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# 1685. RE: RE: Re: [hp8924] RE: 8935A (8935 E6380A ) units being used - or modified?

Yahoo group: hp8924
Date: 2013-10-02 17:56:39 UTC
From: Adam Farson
Topic: 1652  Message: 1685
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Jerry,

Many thanks for that priceless link. I have downloaded the Packet; it is a real treasure.

You may be right as regards modifying the A16 Receiver module. After replacing A16FL1A/FL1B, you would need to sweep and realign the 10.7 MHz IF. If you have a module extender, you may be able to tune the IF by injecting white noise into ANT IN and observing FM_DEMOD_IF on a spectrum analyser.

Cheers for now,

Adam

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Gerald Chafee
Sent: 2-Oct-13 10:25
To: hp8924@yahoogroups.com
Subject: Re: RE: Re: [hp8924] RE: 8935A (8935 E6380A ) units being used - or modified?

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Jerry

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Sent: 27-Sep-13 13:56
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Subject: Re: Re: [hp8924] RE: 8935A (8935 E6380A ) units being used - or modified?

Adam,

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# 1686. Re: RE: Re: [hp8924] RE: 8935A (8935 E6380A ) units being used - or modified?

Yahoo group: hp8924
Date: 2013-10-04 19:01:23 UTC
From: Gerald Chafee
Topic: 1652  Message: 1686

Adam,

This is a little off from what you were asking, but I do know that at one time there was an Aussie firm creating an RF Tools program to run on a PC that would steer a HP 8920 series unit to perform what is already in the 8935 for return loss, but it also had a scanner program,

Given the settling time of this unit and the period it would take to talk back and forth to the computer, it may not be the best 'scanner' I might find, but if there is access to the power of a PC, I could theoretically get the capability to scan and possibly decode signals? Maybe it could be fast enough to follow spread spectrum (or at least trunking, but maybe not decode digital trunking).

I can see the case for having a computer take the output and give waterfall histograms of the spectrum analyzer, and many other possibilities. This could probably be done with standard programming, but not sure how fast the system really would respond. I am sure the latency on the HPIB would cause grief.
I used to program the really old HP 9825 computers/calculators to perform instrument control, but it was really slow going ( bothe for programming and for program operation).

What do you think? Have you ever heard of anyone writing programs for the HP8900 series units to do special stuff with an external computer?

Thanks,

Jerry

On Wed, Oct 2, 2013 at 12:06 AM, Adam Farson <farson@...> wrote:

> **
>
>
> Hi Bob,****
>
> ** **
>
> In fact I have one of your HP 11807E Opt. 100 cards. The only program
> which will run on the 8935 is SAVRCL. The others crash with overflow
> errors. Is there a way around that?****
>
> ** **
>

> 73, Adam VA7OJ/AB4OJ****
>
> ** **
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> ** **
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> ** **
>
> *From:* hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] *On Behalf
> Of *Robert Atkinson
> *Sent:* 1-Oct-13 14:40
> *To:* hp8924@yahoogroups.com
> *Cc:* gchafee@...
>
> *Subject:* Re: RE: Re: [hp8924] RE: 8935A (8935 E6380A ) units being used
> - or modified?****
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> ** **
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> ****
>
> Hi Gerald,****
>
> The HP 11087E opt100 "RF Tools" software includes a scanner program, but I
> can't confirm if it will run on the 8935A. The swept measurements are built
> into the 8935A. The files are in the archive if you have a suitable card. I
> sell programmed flash cards on ebay (item 261291816834) for 50 UK Pounds,
> but offere a discount for list members. You can down load the 11807 manual
> from the Agilent website <
> http://cp.literature.agilent.com/litweb/pdf/11807-90141.pdf >****
>
> ** **
>
> Robert G8RPI.****
> ----------
>
> *From:* Gerald Chafee <gchafee@...>
> *To:* hp8924@yahoogroups.com
> *Sent:* Tuesday, 1 October 2013, 22:08
> *Subject:* Re: RE: Re: [hp8924] RE: 8935A (8935 E6380A ) units being used
> - or modified?****
>
> ** **
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> ****
>
> HI all again,****

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> ****
>
> Has anyone found a software program that works on the 8935A that will make
> it work like a scanner? I understand there was a company that made a
> software program that worked on a PC and HPIB adapter that tied into a
> standard 8920. ****
>
> ****
>
> I would not think it would be much of a stretch to get something that
> would work as a scanner , or could increase the capabilities of all of the
> different 8900 series by performing such things as automated testing,
> histograms, etc.?****
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> ** **
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> On Mon, Sep 30, 2013 at 2:11 PM, Gerald Chafee <gchafee@...> wrote:*
> ***
>
> The 8935A would be in this group where modules could be swapped around? **
> **
>
> ****
>
> I do understand the issues with trying to decompile /recompile an assembly
> level language for the 68000 series processors. I had a laser printer that
> used a different assembly language and I foolishly thought I could learn
> enough to take the software apart. I failed miserably. I can imagine the
> complexity of having these different subsystems with their own little OS's
> running at the same time.****
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> I suppose we should be happy that the different units were made with
> mostly the same type of modules, but maybe slightly different capabilities.
> ****
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>
> I don't suppose they made an AF generator with PL codes and other types of
> audio coding built in that would swap right in to a 8935?****
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>
> Thanks,

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> Jerry****
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> ** **
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> *To:* hp8924@yahoogroups.com
> *Subject:* Re: Re: [hp8924] RE: 8935A (8935 E6380A ) units being used -
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# 1687. RE: 8935A (8935 E6380A ) units being used - or modified?

Yahoo group: hp8924
Date: 2013-10-05 04:45:11 UTC
From: <nzpepping@...>
Topic: 1652  Message: 1687

Aussie crowd: http://www.measurement.net.au/c/25306/1/rf-tools-software.html

---In hp8924@yahoogroups.com, <gchafee@...> wrote:

Adam,

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What do you think? Have you ever heard of anyone writing programs for the HP8900 series units to do special stuff with an external computer?

Thanks,

Jerry

On Wed, Oct 2, 2013 at 12:06 AM, Adam Farson <farson@...> wrote:

Hi Bob,

In fact I have one of your HP 11807E Opt. 100 cards. The only program which will run on the 8935 is SAVRCL. The others crash with overflow errors. Is there a way around that?

73, Adam VA7OJ/AB4OJ

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Robert Atkinson
Sent: 1-Oct-13 14:40
To: hp8924@yahoogroups.com
Cc: gchafee@...

Subject: Re: RE: Re: [hp8924] RE: 8935A (8935 E6380A ) units being used - or modified?

Hi Gerald,
The HP 11087E opt100 "RF Tools" software includes a scanner program, but I can't confirm if it will run on the 8935A. The swept measurements are built into the 8935A. The files are in the archive if you have a suitable card. I sell programmed flash cards on ebay (item 261291816834) for 50 UK Pounds, but offere a discount for list members. You can down load the 11807 manual from the Agilent website <
http://cp.literature.agilent.com/litweb/pdf/11807-90141.pdf >

Robert G8RPI.

From: Gerald Chafee <gchafee@...>
To: hp8924@yahoogroups.com
Sent: Tuesday, 1 October 2013, 22:08
Subject: Re: RE: Re: [hp8924] RE: 8935A (8935 E6380A ) units being used - or modified?

HI all again,

Has anyone found a software program that works on the 8935A that will make it work like a scanner? I understand there was a company that made a software program that worked on a PC and HPIB adapter that tied into a standard 8920.

I would not think it would be much of a stretch to get something that would work as a scanner , or could increase the capabilities of all of the different 8900 series by performing such things as automated testing, histograms, etc.?

On Mon, Sep 30, 2013 at 2:11 PM, Gerald Chafee <gchafee@...> wrote:

The 8935A would be in this group where modules could be swapped around?

I do understand the issues with trying to decompile /recompile an assembly level language for the 68000 series processors. I had a laser printer that used a different assembly language and I foolishly thought I could learn enough to take the software apart. I failed miserably. I can imagine the complexity of having these different subsystems with their own little OS's running at the same time.

I suppose we should be happy that the different units were made with mostly the same type of modules, but maybe slightly different capabilities.

I don't suppose they made an AF generator with PL codes and other types of audio coding built in that would swap right in to a 8935?

Thanks,

Jerry

On Sat, Sep 28, 2013 at 4:32 AM, <zl1cvd@...> wrote:

The 8935, 8920, 8921, 8922, 8924, E8285A, etc are all very similar and if your careful, modules can be swapped from model to model. ie the spectrum analyzer from the GSM 8922 works fine in an CDMA E8285A despite having a different bandwith. Reference modules & more can be swapped. If your worried about calibration data on a module, check the block diagrams of the 8920 & 8924 assembly level repair guides. It shows which modules have cal data (ROM) along with a table showing what HP says can be swapped out without cal data. For a circuit of the receiver module 08920-61102, check the component level packet info HP released for the 8920 - pretty sure its the same or very similar to 08920-61828. As for

modifying the firmware, good luck. From what I can work out its a real time operating system called PSOS by SOFTWARE COMPONENTS GROUP, INC. who I think are now defunct, sold, merged or something. There is a wiki site with info. The real problem as I see it is there are at 4 or 5 sub-systems - each has its own firmware and processor (main, DSP, cell site 1 &2 & protocol). 73s chris zl1cvd

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Hi Jerry,

Just sent you the hi-res photo direct. It is a 2MB file.

Good question on the 8935 identifying the IF BW. You may wish to call or e-mail Rick at Amtronix regarding this. In fact, Rick may be willing to let you have a defective module with the 15 kHz filters at a very reasonable price.

As for the ramifications of changing out the actual crystal filters, I do not know the answer. I have never seen documentation for the individual boards. The Assembly Level Repair manual E6380-90015 lists the complete modules only by reference designator and part number.

In practice, I have not found the 30 kHz IF bandwidth to be a disadvantage when using the 8935 as an FM service monitor. It is certainly a huge improvement over my ancient Cushman CE-31A (now sold.)

73, Adam VA7OJ/AB4OJ

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Gerald Chafee
Sent: 27-Sep-13 13:56
To: hp8924@yahoogroups.com
Subject: Re: Re: [hp8924] RE: 8935A (8935 E6380A ) units being used - or modified?

Adam,

Thanks for the picts. I wish I could figure how to save the hi res picture from the group album. It appears there would normally be a cover over the filter (I think).

I am not sure where I would find a defective 8924 receiver module, but I also wonder if a good 15KHz/280KHz receiver module could just be swapped out, or would it fail the internal self tests since the 8935 would be expecting a 30KHz bandwidth?

I am not sure if the module contains calibration information for it if you are to swap it out. I would think that changing an individual part (such as a crystal) could throw of the calibration of just that section.

Also if I were to change out the crystal, there looks to be a trimmer cap nearby, and an adjustable transformer/choke. Would these need to be adjusted or changed ( I would guess not too much)?

Maybe I can get one of the "defective" 8924C units I see on eBay and part it out. I would guess (hope) the receiver is not the most common part to go bad.

I can get an entire 8924C unit for less than buying a 15KHz/280KHz 08920-61282 receiver module from Amtronix ( although I have all good things to say about the company - just wish the prices were lower).

I would hope that someone would not swap all bad modules into a defective 8924C to get money out of it while fixing others. I am not sure it would be worth it for these companies selling older HP gear to swap out modules.

Jerry

On Thu, Sep 26, 2013 at 7:02 PM, Adam Farson <farson@...> wrote:

Hi Jerry,

As promised, I have taken a photo of the 08920-61102 receiver board, showing the two IGF filters FL1A and FL1B. The photo is in the VA7OJ album in the groups “Photos” section.

If you can locate a duff board, you should be able to move these filters onto the receiver board in your 8935.

73, Adam VA7OJ/AB4OJ

# 1688. RE: RE: Re: [hp8924] RE: 8935A (8935 E6380A ) units being used - or modified?

Yahoo group: hp8924
Date: 2013-10-05 17:51:54 UTC
From: Adam Farson
Topic: 1652  Message: 1688
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Jerry,

I see that the external RF Tools program is rather expensive.

I use an external program (PrintCapture) in my laptop to capture screen images off the 8935. It works quite well, but is not real-time. An example of its usage is here:

http://www.ab4oj.com/atu/presel/main.html

For real-time signal evaluation, I have an HP 8563E. As I have no requirement for a scanner, I have not pursued that particular line of investigation. There is a scanner program in the 11807E Opt. 100 suite, but it will not run on the 8935. Perhaps it runs on the 8924C.

73, Adam VA7OJ/AB4OJ

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Gerald Chafee
Sent: 4-Oct-13 12:01
To: hp8924@yahoogroups.com
Subject: Re: RE: Re: [hp8924] RE: 8935A (8935 E6380A ) units being used - or modified?

Adam,

This is a little off from what you were asking, but I do know that at one time there was an Aussie firm creating an RF Tools program to run on a PC that would steer a HP 8920 series unit to perform what is already in the 8935 for return loss, but it also had a scanner program,

Given the settling time of this unit and the period it would take to talk back and forth to the computer, it may not be the best 'scanner' I might find, but if there is access to the power of a PC, I could theoretically get the capability to scan and possibly decode signals? Maybe it could be fast enough to follow spread spectrum (or at least trunking, but maybe not decode digital trunking).

I can see the case for having a computer take the output and give waterfall histograms of the spectrum analyzer, and many other possibilities. This could probably be done with standard programming, but not sure how fast the system really would respond. I am sure the latency on the HPIB would cause grief.

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# 1689. HP 8935A Service Monitors Spectrum Analyzer extended range in firmware?

Yahoo group: hp8924
Date: 2013-10-30 21:37:50 UTC
From: <gchafee@...>
Topic: 1689  Message: 1689

Hi all,

I have been going over a number of bits of older data regarding the HP 8935A's earlier firmware revisions, when I noticed this little item in the A.02.00 firmware:

Agilent 8935 Series E6380A CDMA Base Station Test Set Firmware Enhancements Update

A.02.00 Release Enhancements, February 1999

1.4 GHz Spectrum analyzer frequency extension

Allows you to monitor intermittent/interfering signals at GPS frequencies with the spectrum analyzer. Service providers have found that spectral clearing at GPS frequencies is imperative to CDMA system timing and ultimately network interoperability. Monitoring and spectral clearing at GPS frequencies can help prevent the "island cell effect."

This would appear to indicate the spectrum analyzers ( and therefore the main receivers they are based on ) had extended frequency capabilities beyond the 400KHz to 1GHz and 1.7GHz to 2.0 GHz.

These use the same receivers for the different 8935A and 8286 series, but the 8920's and other related may not have that capability unless they had the downconverter as I would guess this is an extension of the 1.7 to 2.0GHz system.

Does anyone know if the receivers and spectrum analyzers can go down to the 1.4GHz frequency range? I know it would be really nice if the internal converter could make these work from 400KHz to 2GHz with no interruptions ( except probably generate would not work).

Anyone ever see this?

Also anyone ever find if the AF analyzer from a 8920 or 8921 was swapped out for the one in the 8935, if it could then decode radio paging (and the limited trunking decoding from EDACS and other info)? It seems the 8935 is an expanded 8920, but has limited analog decoding.

It would be nice to find a way to turn the quadrature decoding mixers in the CDMA system to use for other non-standard communications protocols. I see the I and Q phase shifted data available on both generate ( transmit) and receive, but probably tinkering with it would end up with a really big brick! It does look like the basics for the first types of SDR radios ( however, this is just to manage signals from the IF).

Jerry

# 1690. Need Help

Yahoo group: hp8924
Date: 2013-11-03 19:32:03 UTC
From: <craigclarknh@...>
Topic: 1690  Message: 1690

Hi, I am new here and a new owner of an 8924c. I was adjusting the display brightness, and turned it down first, too much as it went dark, then must have slipped off the brightness setting and now cannot see the display in order to turn it back up. Any ideas? Maybe someone can test and see how many turns it takes to get to the setting and then I can do the same? Or is there a reset to factory settings somehow? Ok I know it was a rookie move but I did it somehow! Thanks for any help you can give.

# 1691. Re: Need Help

Yahoo group: hp8924
Date: 2013-11-03 19:51:01 UTC
From: wb6dgn_tom@att.net
Topic: 1690  Message: 1691

I assume you're talking about the "brightness" setting on the RF ANL screen?
There's also a pot. (adjustment) on the top of the display module that sets the range of adjustment available from the front panel. It should be set so that you can't turn the brightness down too low from that front panel adjustment. Remove the top cover and adjust that pot so that you just barely see the display when the front panel adjustment is all the way down. Then adjust at the front panel for desired brightness. IF I REMEMBER CORRECTLY the brightness pot. is the third one back from the front of the display BUT BEFORE YOU ADJUST any pot. maybe someone else can confirm that position so you don't get the wrong one. Sorry, its just been too long to remember for sure. Hope this helps.
Tom

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# 1692. Re: [hp8924] Need Help

Yahoo group: hp8924
Date: 2013-11-03 21:16:16 UTC
From: Ralph Mowery
Topic: 1690  Message: 1692

Don't you just hate it when a display goes blank on you...

Look at the blue SHIFT button near the lower left ot them.  Press it once and then goto the top row where you will see a button lables TESTS and blue lableing behind it labled CONFIG.  Press it once.  That should take you to the configuration screen.  Turn the knob 8 clicks and you will be at the brightness adjustment.  Press the knob once and turn it to the right.  You should then start to see the brightness of the screen.

>_____
>From: "craigclarknh@..." <craigclarknh@comcast.net>
>To: hp8924@yahoogroups.com
>Sent: Sunday, November 3, 2013 2:32 PM
>Subject: [hp8924] Need Help
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# 1693. Re: [hp8924] Need Help

Yahoo group: hp8924
Date: 2013-11-03 21:39:48 UTC
From: Ralph Mowery
Topic: 1690  Message: 1693

Another easier way is to Press SHIFT then TESTS (CONFIG in blue ) and then press the K5 key that is above the Blue SHIFT key.  Do NOT press the round knob in,but turn it to the right several clicks to adjust the brightness.

The K5 key when on the configuration screen will take you directly to the brightness setting and highlight it.  Then all you need to do is just turn the knob without pressing it in.  When you can see the screen and have it set, you can then press the knob in.

>_____
>From: Ralph Mowery <ku4pt@...>
>To: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
>Sent: Sunday, November 3, 2013 4:16 PM
>Subject: Re: [hp8924] Need Help
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# 1694. Re: [hp8924] Re: Need Help

Yahoo group: hp8924
Date: 2013-11-04 01:17:01 UTC
From: craigclarknh@...
Topic: 1690  Message: 1694

Hi Tom, yes it was the adjustment in the config screen, that the settings go up to 8. It was dim and just a few down it went black. Maybe I have other issues but the screen is ok on power up but once it finishes the test phase it goes black. I will look through the book and see it the pots are labeled, but that is a good place to start, thank you, Craig
----- Original Message -----

From: "wb6dgn tom" <wb6dgn_tom@...>
To: hp8924@yahoogroups.com
Sent: Sunday, November 3, 2013 2:51:01 PM
Subject: [hp8924] Re: Need Help

I assume you're talking about the "brightness" setting on the RF ANL screen?
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# 1695. RE: Re: [hp8924] Need Help

Yahoo group: hp8924
Date: 2013-11-04 01:45:36 UTC
From: <craigclarknh@...>
Topic: 1690  Message: 1695

Hi Ralph I tried that no luck however. Maybe some other issue but doesn't seem like it should be as it went out as I turned it down. I wonder if I should try to see if the range pot will help.

---In hp8924@yahoogroups.com, <hp8924@yahoogroups.com> wrote:

Another easier way is to Press SHIFT then TESTS (CONFIG in blue ) and then press the K5 key that is above the Blue SHIFT key. Do NOT press the round knob in,but turn it to the right several clicks to adjust the brightness.

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# 1696. Re: Need Help

Yahoo group: hp8924
Date: 2013-11-04 02:12:56 UTC
From: wb6dgn_tom@att.net
Topic: 1690  Message: 1696

Hi Craig,
That pot. apparently has a tendency to go intermittent and can be troublesome at times. You may need to rotate the control back and forth a few times to get it to be consistent. I've been tempted to try a very small amount of DeOxit to see if that helps as I'm told that the correct pot. is no longer available. I guess there is a replacement but it requires some creative bending of the leads to make it fit (physically). If you want the best fix available, last I knew, Amtronix had some brand new monitor modules which don't have that problem but, for me at least, they're a bit pricey. Keep us posted.
Tom

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> To: hp8924@yahoogroups.com
> Sent: Sunday, November 3, 2013 2:51:01 PM
> Subject: [hp8924] Re: Need Help
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>
> I assume you're talking about the "brightness" setting on the RF ANL screen?
> There's also a pot. (adjustment) on the top of the display module that sets the range of adjustment available from the front panel. It should be set so that you can't turn the brightness down too low from that front panel adjustment. Remove the top cover and adjust that pot so that you just barely see the display when the front panel adjustment is all the way down. Then adjust at the front panel for desired brightness. IF I REMEMBER CORRECTLY the brightness pot. is the third one back from the front of the display BUT BEFORE YOU ADJUST any pot. maybe someone else can confirm that position so you don't get the wrong one. Sorry, its just been too long to remember for sure. Hope this helps.
> Tom
>
>
>
> --- In hp8924@yahoogroups.com, <craigclarknh@> wrote:

> >
> > Hi, I am new here and a new owner of an 8924c. I was adjusting the display brightness, and turned it down first, too much as it went dark, then must have slipped off the brightness setting and now cannot see the display in order to turn it back up. Any ideas? Maybe someone can test and see how many turns it takes to get to the setting and then I can do the same? Or is there a reset to factory settings somehow? Ok I know it was a rookie move but I did it somehow! Thanks for any help you can give.
> >
>

# 1697. Re: [hp8924] Need Help

Yahoo group: hp8924
Date: 2013-11-04 05:25:54 UTC
From: willcoele@ameritech.net
Topic: 1690  Message: 1697

If you can't see the screen you can't get to the menus!!! The only alternative is to connect a video converter and use a VGA monitor.

--- In hp8924@yahoogroups.com, <craigclarknh@...> wrote:
>
> Hi Ralph I tried that no luck however. Maybe some other issue but doesn't seem like it should be as it went out as I turned it down. I wonder if I should try to see if the range pot will help.
>
> Sent: Sunday, November 3, 2013 2:32 PM
> Subject: [hp8924] Need Help
>
>

# 1698. RE: RE: Re: [hp8924] Need Help

Yahoo group: hp8924
Date: 2013-11-04 06:00:30 UTC
From: <nzpepping@...>
Topic: 1690  Message: 1698

My impression is that the menu 'remembers' where it last was.
But only until the machine is restarted.

---In hp8924@yahoogroups.com, <hp8924@yahoogroups.com> wrote:

Hi Ralph I tried that no luck however. Maybe some other issue but doesn't seem like it should be as it went out as I turned it down. I wonder if I should try to see if the range pot will help.

---In hp8924@yahoogroups.com, <hp8924@yahoogroups.com> wrote:

Another easier way is to Press SHIFT then TESTS (CONFIG in blue ) and then press the K5 key that is above the Blue SHIFT key. Do NOT press the round knob in,but turn it to the right several clicks to adjust the brightness.

The K5 key when on the configuration screen will take you directly to the brightness setting and highlight it. Then all you need to do is just turn the knob without pressing it in. When you can see the screen and have it set, you can then press the knob in.

From: Ralph Mowery <ku4pt@...>
To: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
Sent: Sunday, November 3, 2013 4:16 PM
Subject: Re: [hp8924] Need Help

Don't you just hate it when a display goes blank on you...

Look at the blue SHIFT button near the lower left ot them. Press it once and then goto the top row where you will see a button lables TESTS and blue lableing behind it labled CONFIG. Press it once. That should take you to the configuration screen. Turn the knob 8 clicks and you will be at the brightness adjustment. Press the knob once and turn it to the right. You should then start to see the brightness of the screen.

From: "craigclarknh@..." <craigclarknh@...>
To: hp8924@yahoogroups.com
Sent: Sunday, November 3, 2013 2:32 PM
Subject: [hp8924] Need Help

Hi, I am new here and a new owner of an 8924c. I was adjusting the display brightness, and turned it down first, too much as it went dark, then must have slipped off the brightness setting and now cannot see the display in order to turn it back up. Any ideas? Maybe someone can test and see how many turns it takes to get to the setting and then I can do the same? Or is there a reset to factory settings somehow? Ok I know it was a rookie move but I did it somehow! Thanks for any help you can give.

# 1699. Re: RE: Re: [hp8924] Need Help

Yahoo group: hp8924
Date: 2013-11-04 14:03:21 UTC
From: Ralph Mowery
Topic: 1690  Message: 1699

Most of the screens will go back to a power on state or you can set them up and save them using the POWERON command and most will come up that way.

The configuration screen will not do that.  Whever you have it set, it will come back up that way when you turn off the power and turn it back on.

As far as I know you can open it up and adjust the pot as mentioned, or follow the steps I gave and hope that you hit the number of steps correctly.  I think the shift, tests, K5 sequence should be easy to do.  It beats opening the case and what seems like 500 screws to do that.

I have had mine open twice.  Once to change the attenuator pad to make it a 60 watt unit and another time to replace the power supply.  I used a power screwdriver both times to get the screws out and in.  The are the torx (however you spell it) type of screws also.

>_____
>From: "nzpepping@..." <nzpepping@...>
>To: hp8924@yahoogroups.com
>Sent: Monday, November 4, 2013 1:00 AM
>Subject: RE: RE: Re: [hp8924] Need Help
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>
> My impression is that the menu 'remembers' where it last was.
>But only until the machine is restarted.
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# 1700. Re: [hp8924] HP 8935A Service Monitors Spectrum Analyzer extended range in firmware?

Yahoo group: hp8924
Date: 2013-11-04 16:07:09 UTC
From: Gerald Chafee
Topic: 1689  Message: 1700

Hello Everyone on this forum,

Did my post not generate any interest?

If there really was a way in firmware to extend the receiver to 1.4GHz, who is to say they did not have the capacity to extend the range ( maybe in an uncal mode) to 1GHz? If so, one of these units would cover 400KHz to 2GHz with no interruptions, except to make the jump at 1GHz where the upconverter/downconverter would swap.

Any comments?

On Wed, Oct 30, 2013 at 5:37 PM, <gchafee@...> wrote:

```
>
>
> Hi all,
>
>
> I have been going over a number of bits of older data regarding the HP
> 8935A's earlier firmware revisions, when I noticed this little item in the
> A.02.00 firmware:
>
>
>
> Agilent 8935 Series E6380A CDMA Base Station Test Set Firmware
> Enhancements Update
>
>
>
> A.02.00 Release Enhancements, February 1999
>
>
> 1.4 GHz Spectrum analyzer frequency extension
>
>
> Allows you to monitor intermittent/interfering signals at GPS frequencies
> with the spectrum analyzer. Service providers have found that spectral
> clearing at GPS frequencies is imperative to CDMA system timing and
> ultimately network interoperability. Monitoring and spectral clearing at
> GPS frequencies can help prevent the "island cell effect."
>
>
> This would appear to indicate the spectrum analyzers ( and therefore the
> main receivers they are based on ) had extended frequency capabilities
```

> beyond the 400KHz to 1GHz and 1.7GHz to 2.0 GHz.
>
>
> These use the same receivers for the different 8935A and 8286 series, but
> the 8920's and other related may not have that capability unless they had
> the downconverter as I would guess this is an extension of the 1.7 to
> 2.0GHz system.
>
>
> Does anyone know if the receivers and spectrum analyzers can go down to
> the 1.4GHz frequency range? I know it would be really nice if the internal
> converter could make these work from 400KHz to 2GHz with no interruptions (
> except probably generate would not work).
>
>
> Anyone ever see this?
>
>
> Also anyone ever find if the AF analyzer from a 8920 or 8921 was swapped
> out for the one in the 8935, if it could then decode radio paging (and the
> limited trunking decoding from EDACS and other info)? It seems the 8935 is
> an expanded 8920, but has limited analog decoding.
>
>
> It would be nice to find a way to turn the quadrature decoding mixers in
> the CDMA system to use for other non-standard communications protocols. I
> see the I and Q phase shifted data available on both generate ( transmit)
> and receive, but probably tinkering with it would end up with a really big
> brick! It does look like the basics for the first types of SDR radios (
> however, this is just to manage signals from the IF).
>
>
> Jerry
>
>
>

# 1701. Re: [hp8924] HP 8935A Service Monitors Spectrum Analyzer extended range in firmware?

Yahoo group: hp8924
Date: 2013-11-04 22:02:35 UTC
From: Tim Tuck
Topic: 1689 Message: 1701

I'd love this to be possible so I can work on stuff at 1296.

I'll be watching this thread with interest :)

Cheers
Tim

Sent from my iPhone

> On 5 Nov 2013, at 3:07, Gerald Chafee <gchafee@...> wrote:
>
> Hello Everyone on this forum,
>
> Did my post not generate any interest?
>
> If there really was a way in firmware to extend the receiver to 1.4GHz, who is to say they did not have the capacity to extend the range ( maybe in an uncal mode) to 1GHz? If so, one of these units would cover 400KHz to 2GHz with no interruptions, except to make the jump at 1GHz where the upconverter/downconverter would swap.
>
> Any comments?
>
>
>> On Wed, Oct 30, 2013 at 5:37 PM, <gchafee@...> wrote:
>>
>> Hi all,
>>
>>
>> I have been going over a number of bits of older data regarding the HP 8935A's earlier firmware revisions, when I noticed this little item in the A.02.00 firmware:
>>
>>
>>
>> Agilent 8935 Series E6380A CDMA Base Station Test Set Firmware Enhancements Update
>>
>>
>>
>> A.02.00 Release Enhancements, February 1999
>>
>>
>> 1.4 GHz Spectrum analyzer frequency extension
>>
>>
>> Allows you to monitor intermittent/interfering signals at GPS frequencies with the spectrum analyzer. Service providers have found that spectral clearing at GPS frequencies

is imperative to CDMA system timing and ultimately network interoperability. Monitoring and spectral clearing at GPS frequencies can help prevent the "island cell effect."
>>
>>
>> This would appear to indicate the spectrum analyzers ( and therefore the main receivers they are based on ) had extended frequency capabilities beyond the 400KHz to 1GHz and 1.7GHz to 2.0 GHz.
>>
>>
>> These use the same receivers for the different 8935A and 8286 series, but the 8920's and other related may not have that capability unless they had the downconverter as I would guess this is an extension of the 1.7 to 2.0GHz system.
>>
>>
>> Does anyone know if the receivers and spectrum analyzers can go down to the 1.4GHz frequency range? I know it would be really nice if the internal converter could make these work from 400KHz to 2GHz with no interruptions ( except probably generate would not work).
>>
>>
>> Anyone ever see this?
>>
>>
>> Also anyone ever find if the AF analyzer from a 8920 or 8921 was swapped out for the one in the 8935, if it could then decode radio paging (and the limited trunking decoding from EDACS and other info)? It seems the 8935 is an expanded 8920, but has limited analog decoding.
>>
>>
>> It would be nice to find a way to turn the quadrature decoding mixers in the CDMA system to use for other non-standard communications protocols. I see the I and Q phase shifted data available on both generate ( transmit) and receive, but probably tinkering with it would end up with a really big brick! It does look like the basics for the first types of SDR radios ( however, this is just to manage signals from the IF).
>>
>>
>> Jerry
>>
>
>

# 1702. Re: [hp8924] Need Help

Yahoo group: hp8924
Date: 2013-11-04 20:16:46 UTC
From: wb6dgn_tom@att.net
Topic: 1690  Message: 1702

"As far as I know you can open it up and adjust the pot as mentioned, or follow the steps I gave and hope that you hit the number of steps correctly."

Ralph,
Based on what he has described, he's going to have to open it up to clean (or replace) and readjust that pot.; its NOT going to fix itself! AND, by turning the pot. all the way up, he will see the display, even with the "config" set all the way down. I know that because, when I bought my 8924, that's the way it came. The pot. was set way too high and the "config" setting was on "1" and the display was brighter than I normally use it, so..... bite the bullet and FIX it once and for all! (I can preach about it but I still haven't replaced the pot. in mine either!) But that's mainly because I want to try a few cleaners on it first to see if simething will effect a semi-permanent repair since the correct pot. is supposedly no longer available. I just don't like trying to "mickey-mouse" something that really doesn't fit correctly.
Tom

--- In hp8924@yahoogroups.com, Ralph Mowery <ku4pt@...> wrote:
>
> Most of the screens will go back to a power on state or you can set them up and save them using the POWERON command and most will come up that way.
>
> The configuration screen will not do that.  Whever you have it set, it will come back up that way when you turn off the power and turn it back on.
>
> As far as I know you can open it up and adjust the pot as mentioned, or follow the steps I gave and hope that you hit the number of steps correctly.  I think the shift, tests, K5 sequence should be easy to do.  It beats opening the case and what seems like 500 screws to do that.
>
> I have had mine open twice.  Once to change the attenuator pad to make it a 60 watt unit and another time to replace the power supply.  I used a power screwdriver both times to get the screws out and in.  The are the torx (however you spell it) type of screws also.
>
>
>
> >_____
> >From: "nzpepping@..." <nzpepping@...>
> >To: hp8924@yahoogroups.com
> >Sent: Monday, November 4, 2013 1:00 AM
> >Subject: RE: RE: Re: [hp8924] Need Help
> >
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> >
> > My impression is that the menu 'remembers' where it last was.
> >But only until the machine is restarted.
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# 1703. RE: [hp8924] Need Help

Yahoo group: hp8924
Date: 2013-11-04 21:45:46 UTC
From: Craig W Clark
Topic: 1690  Message: 1703

Ok guys sounds like I need to bust out the torx drivers and see whats inside. I'll try a little shot of deoxit and turn it up a bit. Sounds like a bit of work but that's ok if it fixes it. Thanks so much for the tips, nice to have a good source for info. The HP is new to me, I have several IFR units and know a little about them but need to learn about this beast.

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of wb6dgn_tom@...
Sent: Monday, November 04, 2013 3:17 PM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Need Help

"As far as I know you can open it up and adjust the pot as mentioned, or follow the steps I gave and hope that you hit the number of steps correctly."

Ralph,
Based on what he has described, he's going to have to open it up to clean (or replace) and readjust that pot.; its NOT going to fix itself! AND, by turning the pot. all the way up, he will see the display, even with the "config" set all the way down. I know that because, when I bought my 8924, that's the way it came. The pot. was set way too high and the "config" setting was on "1" and the display was brighter than I normally use it, so..... bite the bullet and FIX it once and for all! (I can preach about it but I still haven't replaced the pot. in mine either!) But that's mainly because I want to try a few cleaners on it first to see if simething will effect a semi-permanent repair since the correct pot. is supposedly no longer available. I just don't like trying to "mickey-mouse" something that really doesn't fit correctly.
Tom

--- In hp8924@yahoogroups.com, Ralph Mowery <ku4pt@...> wrote:
>
> Most of the screens will go back to a power on state or you can set them up and save them using the POWERON command and most will come up that way.
>
> The configuration screen will not do that. Whever you have it set, it will come back up that way when you turn off the power and turn it back on.

>
> As far as I know you can open it up and adjust the pot as mentioned, or follow the steps I gave and hope that you hit the number of steps correctly. I think the shift, tests, K5 sequence should be easy to do. It beats opening the case and what seems like 500 screws to do that.
>
> I have had mine open twice. Once to change the attenuator pad to make it

a 60 watt unit and another time to replace the power supply. I used a power screwdriver both times to get the screws out and in. The are the torx (however you spell it) type of screws also.
>
>
>
> >_____
> >From: "nzpepping@..." <nzpepping@...>
> >To: hp8924@yahoogroups.com
> >Sent: Monday, November 4, 2013 1:00 AM
> >Subject: RE: RE: Re: [hp8924] Need Help
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> > My impression is that the menu 'remembers' where it last was.
> >But only until the machine is restarted.
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>

# 1704. Re: [hp8924] HP 8935A Service Monitors Spectrum Analyzer extended range in firmware?

Yahoo group: hp8924
Date: 2013-11-04 22:18:41 UTC
From: Gerald Chafee
Topic: 1689  Message: 1704

Yes - unfortunately, my 8935A has firmware version A01.10 (which is probably what most people have). I have no way of testing or finding if this was all in firmware. According to the manuals I can find, there is no special setup for firmware A02.00. I guess you just need to have the firmware files. I am not sure where to find these files.

The spectrum analyzer runs off the same IF that feeds the receiver (114.3MHz), so that could not be changed as all the 89XX series use the same basic receiver modules ( with a minor change for one bandwidth).

The 8935A block diagrams show the downconverter having a range of 1400MHz - 2200MHz.right from the antenna (or RFIn/Out). So this would leave it up to the LO to generate a frequency between 1014 and 1814 which would extend the receive frequency range from 1400MHz to 2200MHz. That is a big jump as it adds 500MHz to the receive range.

It is not a matter of making any mods to the system, it was designed with these specs in the RF section ( see Assembly Level Repair manual E6380-90015 (Rev E) page 288).

The question is why does it not work already through this range as it was clearly designed to do so? Did HP cripple it on purpose to make it so they could add "frequency extension options" in the future?

The only other reason I can think if where thy did not wish to publish this fact, is that the Generate portion did not have the capability to match this range.

So if that is it, the issue is the RX and TX ranges would be different and may cause some confusion to someone that should have no business working on radio equipment in the first place if they did not understand this.

Any additional help here guys?

Jerry

# 1705. Re: [hp8924] Need Help

Yahoo group: hp8924
Date: 2013-11-04 23:05:22 UTC
From: Joe Ciarcia
Topic: 1690  Message: 1705

Craig, I have one and have adjusted the internal monitor pot. They get
noisy. Give me a call.
Joe K1JC

On Mon, Nov 4, 2013 at 4:45 PM, Craig W Clark <craigclarknh@...>wrote:

>
>
> Ok guys sounds like I need to bust out the torx drivers and see whats
> inside. I’ll try a little shot of deoxit and turn it up a bit. Sounds like
> a bit of work but that’s ok if it fixes it. Thanks so much for the tips,
> nice to have a good source for info. The HP is new to me, I have several
> IFR units and know a little about them but need to learn about this beast.
>
>
>
> *From:* hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] *On Behalf
> Of *wb6dgn_tom@...t
> *Sent:* Monday, November 04, 2013 3:17 PM
> *To:* hp8924@...m
> *Subject:* Re: [hp8924] Need Help
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> "As far as I know you can open it up and adjust the pot as mentioned, or
> follow the steps I gave and hope that you hit the number of steps
> correctly."
>
> Ralph,
> Based on what he has described, he's going to have to open it up to clean
> (or replace) and readjust that pot.; its NOT going to fix itself! AND, by
> turning the pot. all the way up, he will see the display, even with the
> "config" set all the way down. I know that because, when I bought my 8924,
> that's the way it came. The pot. was set way too high and the "config"
> setting was on "1" and the display was brighter than I normally use it,
> so..... bite the bullet and FIX it once and for all! (I can preach about it
> but I still haven't replaced the pot. in mine either!) But that's mainly
> because I want to try a few cleaners on it first to see if simething will
> effect a semi-permanent repair since the correct pot. is supposedly no
> longer available. I just don't like trying to "mickey-mouse" something that
> really doesn't fit correctly.

> Tom
>
> --- In hp8924@yahoogroups.com, Ralph Mowery <ku4pt@...> wrote:
> >
> > Most of the screens will go back to a power on state or you can set them
> up and save them using the POWERON command and most will come up that way.
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> > The configuration screen will not do that. Whever you have it set, it
> will come back up that way when you turn off the power and turn it back
> on.
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> follow the steps I gave and hope that you hit the number of steps
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> beats opening the case and what seems like 500 screws to do that.
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> > I have had mine open twice. Once to change the attenuator pad to make
> it a 60 watt unit and another time to replace the power supply. I used a
> power screwdriver both times to get the screws out and in. The are the
> torx (however you spell it) type of screws also.
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> >
> >
> > >_____
> > >From: "nzpepping@..." <nzpepping@...>
> > >To: hp8924@yahoogroups.com
> > >Sent: Monday, November 4, 2013 1:00 AM
> > >Subject: RE: RE: Re: [hp8924] Need Help
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> > > My impression is that the menu 'remembers' where it last was.
> > >But only until the machine is restarted.
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# 1706. Re: Need Help

Yahoo group: hp8924
Date: 2013-11-04 23:40:38 UTC
From: wb6dgn_tom@att.net
Topic: 1690  Message: 1706

Joe,
If you have any information we haven't considered, I, for one, would sure like to hear it as well. As my comment should have implied, I'm not really happy with any of the options I've considered. All help is greatly appreciated.
Tom

--- In hp8924@yahoogroups.com, Joe Ciarcia <k1jcnh@...> wrote:
>
> Craig, I have one and have adjusted the internal monitor pot. They get
> noisy. Give me a call.
> Joe K1JC
>
>
> On Mon, Nov 4, 2013 at 4:45 PM, Craig W Clark <craigclarknh@...>wrote:
>
> >
> >
> > Ok guys sounds like I need to bust out the torx drivers and see whats
> > inside. I'll try a little shot of deoxit and turn it up a bit. Sounds like
> > a bit of work but that's ok if it fixes it. Thanks so much for the tips,
> > nice to have a good source for info. The HP is new to me, I have several
> > IFR units and know a little about them but need to learn about this beast.
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> >
> > *From:* hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] *On Behalf
> > Of *wb6dgn_tom@...
> > *Sent:* Monday, November 04, 2013 3:17 PM
> > *To:* hp8924@yahoogroups.com
> > *Subject:* Re: [hp8924] Need Help
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> > "As far as I know you can open it up and adjust the pot as mentioned, or
> > follow the steps I gave and hope that you hit the number of steps
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> > Ralph,
> > Based on what he has described, he's going to have to open it up to clean
> > (or replace) and readjust that pot.; its NOT going to fix itself! AND, by
> > turning the pot. all the way up, he will see the display, even with the

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> > that's the way it came. The pot. was set way too high and the "config"
> > setting was on "1" and the display was brighter than I normally use it,
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> > effect a semi-permanent repair since the correct pot. is supposedly no
> > longer available. I just don't like trying to "mickey-mouse" something that
> > really doesn't fit correctly.
> > Tom
> >
> > --- In hp8924@yahoogroups.com, Ralph Mowery <ku4pt@> wrote:
> > >
> > > Most of the screens will go back to a power on state or you can set them
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> > > The configuration screen will not do that. Whever you have it set, it
> > will come back up that way when you turn off the power and turn it back
> > on.
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> > > As far as I know you can open it up and adjust the pot as mentioned, or
> > follow the steps I gave and hope that you hit the number of steps
> > correctly. I think the shift, tests, K5 sequence should be easy to do. It
> > beats opening the case and what seems like 500 screws to do that.
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> > > I have had mine open twice. Once to change the attenuator pad to make
> > it a 60 watt unit and another time to replace the power supply. I used a
> > power screwdriver both times to get the screws out and in. The are the
> > torx (however you spell it) type of screws also.
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> > > >_____
> > > >From: "nzpepping@" <nzpepping@>
> > > >To: hp8924@yahoogroups.com
> > > >Sent: Monday, November 4, 2013 1:00 AM
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# 1707. Re: [hp8924] Re: Need Help

Yahoo group: hp8924
Date: 2013-11-05 00:46:42 UTC
From: Joe Ciarcia
Topic: 1690  Message: 1707

Tom I think as someone else had suggested you can take the covers off and adjust the brightness pot. Mine was noisy so I cleaned it then adjusted it so at min front panel brightness you can still see a trace.
Joe
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> > > Of *wb6dgn_tom@...
> > > *Sent:* Monday, November 04, 2013 3:17 PM
> > > *To:* hp8924@yahoogroups.com

> > > *Subject:* Re: [hp8924] Need Help
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# 1708. Re: [hp8924] Re: Need Help

Yahoo group: hp8924
Date: 2013-11-05 02:28:45 UTC
From: craigclarknh@...
Topic: 1690  Message: 1708

Ok I opened it up and adjusted the pot and display came back nice and bright! I adjusted the low end to be still visible but good at 4 or 5. Really excited! Thank you all for the help, it is far better now than when I received it. Awesome!!!! By the way the pot did not seem flakey at all and adjusted very solid. Pretty dusty so blew it out well with air so that should help the cooling.

----- Original Message -----

From: "wb6dgn tom" <wb6dgn_tom@...>
To: hp8924@yahoogroups.com
Sent: Monday, November 4, 2013 6:40:38 PM
Subject: [hp8924] Re: Need Help

Joe,
If you have any information we haven't considered, I, for one, would sure like to hear it as well. As my comment should have implied, I'm not really happy with any of the options I've considered. All help is greatly appreciated.
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> > Of *wb6dgn_tom@...
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> > *To:* hp8924@yahoogroups.com
> > *Subject:* Re: [hp8924] Need Help
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# 1709. Re: [hp8924] Re: Need Help

Yahoo group: hp8924
Date: 2013-11-05 02:32:35 UTC
From: craigclarknh@...
Topic: 1690  Message: 1709

Oh I have one more question, it is set up to use external reference at 10 MHz and works with 10 MHz from my IFR. How do I change it to use internal reference signal?

----- Original Message -----

From: "Joe Ciarcia" <k1jcnh@...>
To: hp8924@yahoogroups.com
Sent: Monday, November 4, 2013 7:46:42 PM
Subject: Re: [hp8924] Re: Need Help

Tom I think as someone else had suggested you can take the covers off and adjust the brightness pot. Mine was noisy so I cleaned it then adjusted it so at min front panel brightness you can still see a trace.
Joe
On Nov 4, 2013 6:40 PM, " wb6dgn_tom@... " < wb6dgn_tom@... > wrote:

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# 1710. RE: [hp8924] HP 8935A Service Monitors Spectrum Analyzer extended range in firmware?

Yahoo group: hp8924
Date: 2013-11-05 02:40:04 UTC
From: Adam Farson
Topic: 1689  Message: 1710
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Tim,

My 8935 is a late model (S/N prefix GB41) and the firmware version is B.04.00. Its spectrum analyser tunes down t0 1400 MHz.

A non-invasive method for 1.2 GHz operation is an external mixer/LO. One could derive a 200 MHz LO signal by phase-locking a Mini-Circuits VCO to one of the clock outputs from the 8935. A 1.2 GHz bandpass filter at the mixer’s RF port would keep down spurious outputs/responses (e.g. the opposite sideband of the mix.)

73, Adam VA7OJ/AB4OJ

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Tim Tuck
Sent: 4-Nov-13 14:03
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] HP 8935A Service Monitors Spectrum Analyzer extended range in firmware?

I'd love this to be possible so I can work on stuff at 1296.

I'll be watching this thread with interest :)

Cheers

Tim

Sent from my iPhone

On 5 Nov 2013, at 3:07, Gerald Chafee <gchafee@...> wrote:

Hello Everyone on this forum,

Did my post not generate any interest?

If there really was a way in firmware to extend the receiver to 1.4GHz, who is to say they did not have the capacity to extend the range ( maybe in an uncal mode) to 1GHz? If so, one of these units would cover 400KHz to 2GHz with no interruptions, except to make the jump at 1GHz where the upconverter/downconverter would swap.

Any comments?

On Wed, Oct 30, 2013 at 5:37 PM, <gchafee@...> wrote:

Hi all,

I have been going over a number of bits of older data regarding the HP 8935A's earlier firmware revisions, when I noticed this little item in the A.02.00 firmware:

Agilent 8935 Series E6380A CDMA Base Station Test Set Firmware Enhancements Update

A.02.00 Release Enhancements, February 1999

1.4 GHz Spectrum analyzer frequency extension

Allows you to monitor intermittent/interfering signals at GPS frequencies with the spectrum analyzer. Service providers have found that spectral clearing at GPS frequencies is imperative to CDMA system timing and ultimately network interoperability. Monitoring and spectral clearing at GPS frequencies can help prevent the "island cell effect."

This would appear to indicate the spectrum analyzers ( and therefore the main receivers they are based on ) had extended frequency capabilities beyond the 400KHz to 1GHz and 1.7GHz to 2.0 GHz.

These use the same receivers for the different 8935A and 8286 series, but the 8920's and other related may not have that capability unless they had the downconverter as I would guess this is an extension of the 1.7 to 2.0GHz system.

Does anyone know if the receivers and spectrum analyzers can go down to the 1.4GHz frequency range? I know it would be really nice if the internal converter could make these work from 400KHz to 2GHz with no interruptions ( except probably generate would not work).

Anyone ever see this?

Also anyone ever find if the AF analyzer from a 8920 or 8921 was swapped out for the one in the 8935, if it could then decode radio paging (and the limited trunking decoding from EDACS and other info)? It seems the 8935 is an expanded 8920, but has limited analog decoding.

It would be nice to find a way to turn the quadrature decoding mixers in the CDMA system to use for other non-standard communications protocols. I see the I and Q phase shifted data available on both generate ( transmit) and receive, but probably tinkering with it would end up with a really big brick! It does look like the basics for the first types of SDR radios ( however, this is just to manage signals from the IF).

Jerry

# 1711. Re: [hp8924] Re: Need Help Reference

Yahoo group: hp8924
Date: 2013-11-05 09:12:08 UTC
From: Robert Atkinson
Topic: 1690  Message: 1711

Hi,
it's easy, connect a coax jumper between the 10MHz oven output and the Reference input.

Robert G8RPI.

---
From: "craigclarknh@..." <craigclarknh@...>
To: hp8924@yahoogroups.com
Sent: Tuesday, 5 November 2013, 2:32
Subject: Re: [hp8924] Re: Need Help

Oh I have one more question, it is set up to use external reference at 10 MHz and works with 10 MHz from my IFR. How do I change it to use internal reference signal?

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From: "Joe Ciarcia" <k1jcnh@...>
To: hp8924@yahoogroups.com
Sent: Monday, November 4, 2013 7:46:42 PM
Subject: Re: [hp8924] Re: Need Help

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# 1712. RE: [hp8924] Re: Need Help Reference

Yahoo group: hp8924
Date: 2013-11-05 14:34:35 UTC
From: Craig W Clark
Topic: 1690  Message: 1712

Duh, I should have looked there! Thanks.

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Robert Atkinson
Sent: Tuesday, November 05, 2013 4:12 AM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Re: Need Help Reference

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> > Ralph,
> > Based on what he has described, he's going to have to open it up to clean
> > (or replace) and readjust that pot.; its NOT going to fix itself! AND, by
> > turning the pot. all the way up, he will see the display, even with the
> > "config" set all the way down. I know that because, when I bought my 8924,
> > that's the way it came. The pot. was set way too high and the "config"
> > setting was on "1" and the display was brighter than I normally use it,
> > so..... bite the bullet and FIX it once and for all! (I can preach about it
> > but I still haven't replaced the pot. in mine either!) But that's mainly
> > because I want to try a few cleaners on it first to see if simething will
> > effect a semi-permanent repair since the correct pot. is supposedly no
> > longer available. I just don't like trying to "mickey-mouse" something that
> > really doesn't fit correctly.
> > Tom
> >
> > --- In hp8924@yahoogroups.com, Ralph Mowery <ku4pt@> wrote:
> > >
> > > Most of the screens will go back to a power on state or you can set them
> > up and save them using the POWERON command and most will come up that way.
> > >

> > > The configuration screen will not do that. Whever you have it set, it
> > will come back up that way when you turn off the power and turn it back
> > on.
> > >
> > > As far as I know you can open it up and adjust the pot as mentioned, or
> > follow the steps I gave and hope that you hit the number of steps
> > correctly. I think the shift, tests, K5 sequence should be easy to do. It
> > beats opening the case and what seems like 500 screws to do that.
> > >
> > > I have had mine open twice. Once to change the attenuator pad to make
> > it a 60 watt unit and another time to replace the power supply. I used a
> > power screwdriver both times to get the screws out and in. The are the
> > torx (however you spell it) type of screws also.
> > >
> > >
> > >
> > > >_____
> > > >From: "nzpepping@" <nzpepping@>
> > > >To: hp8924@yahoogroups.com
> > > >Sent: Monday, November 4, 2013 1:00 AM
> > > >Subject: RE: RE: Re: [hp8924] Need Help
> > > >
> > > >
> > > >
> > > >
> > > >
> > > >
> > > > My impression is that the menu 'remembers' where it last was.
> > > >But only until the machine is restarted.
> > > >
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>

# 1713. Re: [hp8924] HP 8935A Service Monitors Spectrum Analyzer extended range in firmware?

Yahoo group: hp8924
Date: 2013-11-05 15:07:07 UTC
From: Gerald Chafee
Topic: 1689  Message: 1713

Adam,

Is yours a E6380A (CDMA) or E6381A (TDMA)

Does the receiver and receiver measurements work from 1400MHZ to 2000MHZ?

Since this is all comes from the same IF, it would seem logical it would
allow other measurements then just the Spectrum Analyzer.

Too bad there is not an easy way to hack the firmware as it should be able
to go from 1400MHZ to 2200MHZ through the entire receive/analyzer train.

Any ideas how to get the newer firmware to upgrade the older version?

Jerry

On Mon, Nov 4, 2013 at 9:40 PM, Adam Farson <farson@...> wrote:

>
>
> Hi Tim,
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>
> My 8935 is a late model (S/N prefix GB41) and the firmware version is
> B.04.00. Its spectrum analyser tunes down t0 1400 MHz.
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> A non-invasive method for 1.2 GHz operation is an external mixer/LO. One
> could derive a 200 MHz LO signal by phase-locking a Mini-Circuits VCO to
> one of the clock outputs from the 8935. A 1.2 GHz bandpass filter at the
> mixer’s RF port would keep down spurious outputs/responses (e.g. the
> opposite sideband of the mix.)
>
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>
> 73, Adam VA7OJ/AB4OJ
>
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>
> *From:* hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] *On Behalf
> Of *Tim Tuck
> *Sent:* 4-Nov-13 14:03
> *To:* hp8924@yahoogroups.com
> *Subject:* Re: [hp8924] HP 8935A Service Monitors Spectrum Analyzer
> extended range in firmware?
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> I'd love this to be possible so I can work on stuff at 1296.
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> I'll be watching this thread with interest :)
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> Cheers
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> Tim
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> Sent from my iPhone
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> On 5 Nov 2013, at 3:07, Gerald Chafee <gchafee@...> wrote:
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> Hello Everyone on this forum,
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> Did my post not generate any interest?
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> If there really was a way in firmware to extend the receiver to 1.4GHz,
> who is to say they did not have the capacity to extend the range ( maybe in
> an uncal mode) to 1GHz? If so, one of these units would cover 400KHz to
> 2GHz with no interruptions, except to make the jump at 1GHz where the
> upconverter/downconverter would swap.
>
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> Any comments?

>
>
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> On Wed, Oct 30, 2013 at 5:37 PM, <gchafee@...> wrote:
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> Hi all,
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> I have been going over a number of bits of older data regarding the HP
> 8935A's earlier firmware revisions, when I noticed this little item in the
> A.02.00 firmware:
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> Agilent 8935 Series E6380A CDMA Base Station Test Set Firmware
> Enhancements Update
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> A.02.00 Release Enhancements, February 1999
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>
> 1.4 GHz Spectrum analyzer frequency extension
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>
> Allows you to monitor intermittent/interfering signals at GPS frequencies
> with the spectrum analyzer. Service providers have found that spectral
> clearing at GPS frequencies is imperative to CDMA system timing and
> ultimately network interoperability. Monitoring and spectral clearing at
> GPS frequencies can help prevent the "island cell effect."
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> This would appear to indicate the spectrum analyzers ( and therefore the
> main receivers they are based on ) had extended frequency capabilities
> beyond the 400KHz to 1GHz and 1.7GHz to 2.0 GHz.
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> These use the same receivers for the different 8935A and 8286 series, but
> the 8920's and other related may not have that capability unless they had
> the downconverter as I would guess this is an extension of the 1.7 to
> 2.0GHz system.
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> Does anyone know if the receivers and spectrum analyzers can go down to
> the 1.4GHz frequency range? I know it would be really nice if the internal
> converter could make these work from 400KHz to 2GHz with no interruptions (
> except probably generate would not work).
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> Anyone ever see this?
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> Also anyone ever find if the AF analyzer from a 8920 or 8921 was swapped
> out for the one in the 8935, if it could then decode radio paging (and the
> limited trunking decoding from EDACS and other info)? It seems the 8935 is
> an expanded 8920, but has limited analog decoding.
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> It would be nice to find a way to turn the quadrature decoding mixers in
> the CDMA system to use for other non-standard communications protocols. I
> see the I and Q phase shifted data available on both generate ( transmit)
> and receive, but probably tinkering with it would end up with a really big
> brick! It does look like the basics for the first types of SDR radios (
> however, this is just to manage signals from the IF).
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> Jerry
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# 1714. RE: [hp8924] HP 8935A Service Monitors Spectrum Analyzer extended range in firmware?

Yahoo group: hp8924
Date: 2013-11-05 19:49:27 UTC
From: Adam Farson
Topic: 1689  Message: 1714
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Jerry,

My 8935 is an E6380A (CDMA). I checked the receiver (RF Analyser) and it covers only 0.4 - 1000 MHz and 1700-2000 MHz. I was able to "stretch" the RF Generator to 1015 MHz but it rejected entries > 1015 MHz.

I did a search on the firmware, but no go. About the only place I can think of which may have it is an HP/Agilent calibration centre. You could try Rick Bowman at Amtronix Instruments.

http://www.amtronix.com

Cheers for now,

Adam

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Gerald Chafee
Sent: 5-Nov-13 07:07
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] HP 8935A Service Monitors Spectrum Analyzer extended range in firmware?

Adam,

Is yours a E6380A (CDMA) or E6381A (TDMA)

Does the receiver and receiver measurements work from 1400MHZ to 2000MHZ?

Since this is all comes from the same IF, it would seem logical it would allow other measurements then just the Spectrum Analyzer.

Too bad there is not an easy way to hack the firmware as it should be able to go from 1400MHZ to 2200MHZ through the entire receive/analyzer train.

Any ideas how to get the newer firmware to upgrade the older version?

Jerry

On Mon, Nov 4, 2013 at 9:40 PM, Adam Farson <farson@...> wrote:

Hi Tim,

My 8935 is a late model (S/N prefix GB41) and the firmware version is B.04.00. Its spectrum analyser tunes down t0 1400 MHz.

A non-invasive method for 1.2 GHz operation is an external mixer/LO. One could derive a 200 MHz LO signal by phase-locking a Mini-Circuits VCO to one of the clock outputs from the 8935. A 1.2 GHz bandpass filter at the mixer's RF port would keep down spurious outputs/responses (e.g. the opposite sideband of the mix.)

73, Adam VA7OJ/AB4OJ

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Tim Tuck
Sent: 4-Nov-13 14:03
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] HP 8935A Service Monitors Spectrum Analyzer extended range in firmware?

I'd love this to be possible so I can work on stuff at 1296.

I'll be watching this thread with interest :)

Cheers

Tim

Sent from my iPhone

On 5 Nov 2013, at 3:07, Gerald Chafee <gchafee@...> wrote:

Hello Everyone on this forum,

Did my post not generate any interest?

If there really was a way in firmware to extend the receiver to 1.4GHz, who is to say they did not have the capacity to extend the range ( maybe in an uncal mode) to 1GHz? If so, one of these units would cover 400KHz to 2GHz with no interruptions, except to make the jump at 1GHz where the upconverter/downconverter would swap.

Any comments?

On Wed, Oct 30, 2013 at 5:37 PM, <gchafee@...> wrote:

Hi all,

I have been going over a number of bits of older data regarding the HP 8935A's earlier firmware revisions, when I noticed this little item in the A.02.00 firmware:

Agilent 8935 Series E6380A CDMA Base Station Test Set Firmware Enhancements Update

A.02.00 Release Enhancements, February 1999

1.4 GHz Spectrum analyzer frequency extension

Allows you to monitor intermittent/interfering signals at GPS frequencies with the spectrum analyzer. Service providers have found that spectral

clearing at GPS frequencies is imperative to CDMA system timing and ultimately network interoperability. Monitoring and spectral clearing at GPS frequencies can help prevent the "island cell effect."

This would appear to indicate the spectrum analyzers ( and therefore the main receivers they are based on ) had extended frequency capabilities beyond the 400KHz to 1GHz and 1.7GHz to 2.0 GHz.

These use the same receivers for the different 8935A and 8286 series, but the 8920's and other related may not have that capability unless they had the downconverter as I would guess this is an extension of the 1.7 to 2.0GHz system.

Does anyone know if the receivers and spectrum analyzers can go down to the 1.4GHz frequency range? I know it would be really nice if the internal converter could make these work from 400KHz to 2GHz with no interruptions ( except probably generate would not work).

Anyone ever see this?

Also anyone ever find if the AF analyzer from a 8920 or 8921 was swapped out for the one in the 8935, if it could then decode radio paging (and the limited trunking decoding from EDACS and other info)? It seems the 8935 is an expanded 8920, but has limited analog decoding.

It would be nice to find a way to turn the quadrature decoding mixers in the CDMA system to use for other non-standard communications protocols. I see the I and Q phase shifted data available on both generate ( transmit) and receive, but probably tinkering with it would end up with a really big brick! It does look like the basics for the first types of SDR radios ( however, this is just to manage signals from the IF).

Jerry

# 1715. Re: [hp8924] HP 8935A Service Monitors Spectrum Analyzer extended range in firmware?

Yahoo group: hp8924
Date: 2013-11-05 21:27:27 UTC
From: Gerald Chafee
Topic: 1689  Message: 1715

Yes - I expect that generating will not go past the original specs looking at the block diagrams, but the receive diagrams show a range in the high end of 1400 MHz - 2200 MHz

I have a feeling that updated firmware is going to be difficult to find.

Jerry

On Tue, Nov 5, 2013 at 2:49 PM, Adam Farson <farson@...> wrote:

>
>
> Hi Jerry,
>
>
>
> My 8935 is an E6380A (CDMA). I checked the receiver (RF Analyser) and it
> covers only 0.4 – 1000 MHz and 1700-2000 MHz. I was able to “stretch” the
> RF Generator to 1015 MHz but it rejected entries > 1015 MHz.
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> *From:* hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] *On Behalf

> Of *Gerald Chafee
> *Sent:* 5-Nov-13 07:07
>
> *To:* hp8924@yahoogroups.com
> *Subject:* Re: [hp8924] HP 8935A Service Monitors Spectrum Analyzer
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> *To:* hp8924@yahoogroups.com
> *Subject:* Re: [hp8924] HP 8935A Service Monitors Spectrum Analyzer
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> A.02.00 Release Enhancements, February 1999
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> 1.4 GHz Spectrum analyzer frequency extension
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# 1716. Re: [hp8924] HP 8935A Service Monitors Spectrum Analyzer extended range in firmware?

Yahoo group: hp8924
Date: 2013-11-06 15:07:26 UTC
From: Gerald Chafee
Topic: 1689  Message: 1716

I tried to send off an email to Amtronix and it bounced as their email quota exceeded.

I will give them a try as far as calling ( they are in the same State as I am and not too far away in distance).

Maybe I can get lucky.

On Tue, Nov 5, 2013 at 2:49 PM, Adam Farson <farson@...> wrote:

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> Hi Jerry,
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> Of *Gerald Chafee
> *Sent:* 5-Nov-13 07:07
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> *To:* hp8924@yahoogroups.com
> *Subject:* Re: [hp8924] HP 8935A Service Monitors Spectrum Analyzer
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# 1717. RE: [hp8924] HP 8935A Service Monitors Spectrum Analyzer extended range in firmware?

Yahoo group: hp8924
Date: 2013-11-06 19:37:47 UTC
From: Adam Farson
Topic: 1689  Message: 1717
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Jerry,

Calling them is probably best; ask for Rick Bowman. He is a great guy and very willing to help.

I did another thorough search for firmware. Even searched eBay; they have other firmware on offer, including a set for the 8920A - but nothing for the 8935.

It looks as if I was very lucky to "snag" such a late-model instrument. Have you checked with a couple of calibration houses?

73, Adam VA7OJ/AB4OJ

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Gerald Chafee
Sent: 6-Nov-13 07:07
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] HP 8935A Service Monitors Spectrum Analyzer extended range in firmware?

I tried to send off an email to Amtronix and it bounced as their email quota exceeded.

I will give them a try as far as calling ( they are in the same State as I am and not too far away in distance).

Maybe I can get lucky.

On Tue, Nov 5, 2013 at 2:49 PM, Adam Farson <farson@...> wrote:

Hi Jerry,

My 8935 is an E6380A (CDMA). I checked the receiver (RF Analyser) and it covers only 0.4 - 1000 MHz and 1700-2000 MHz. I was able to "stretch" the RF Generator to 1015 MHz but it rejected entries > 1015 MHz.

I did a search on the firmware, but no go. About the only place I can think of which may have it is an HP/Agilent calibration centre. You could try Rick Bowman at Amtronix Instruments.

http://www.amtronix.com

Cheers for now,

Adam

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Gerald Chafee
Sent: 5-Nov-13 07:07

To: hp8924@yahoogroups.com
Subject: Re: [hp8924] HP 8935A Service Monitors Spectrum Analyzer extended range in firmware?

Adam,

Is yours a E6380A (CDMA) or E6381A (TDMA)

Does the receiver and receiver measurements work from 1400MHZ to 2000MHZ?

Since this is all comes from the same IF, it would seem logical it would allow other measurements then just the Spectrum Analyzer.

Too bad there is not an easy way to hack the firmware as it should be able to go from 1400MHZ to 2200MHZ through the entire receive/analyzer train.

Any ideas how to get the newer firmware to upgrade the older version?

Jerry

On Mon, Nov 4, 2013 at 9:40 PM, Adam Farson <farson@...> wrote:

Hi Tim,

My 8935 is a late model (S/N prefix GB41) and the firmware version is B.04.00. Its spectrum analyser tunes down t0 1400 MHz.

A non-invasive method for 1.2 GHz operation is an external mixer/LO. One could derive a 200 MHz LO signal by phase-locking a Mini-Circuits VCO to one of the clock outputs from the 8935. A 1.2 GHz bandpass filter at the mixer's RF port would keep down spurious outputs/responses (e.g. the opposite sideband of the mix.)

73, Adam VA7OJ/AB4OJ

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Tim Tuck
Sent: 4-Nov-13 14:03
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] HP 8935A Service Monitors Spectrum Analyzer extended range in firmware?

I'd love this to be possible so I can work on stuff at 1296.

I'll be watching this thread with interest :)

Cheers

Tim

Sent from my iPhone

On 5 Nov 2013, at 3:07, Gerald Chafee <gchafee@...> wrote:

Hello Everyone on this forum,

Did my post not generate any interest?

If there really was a way in firmware to extend the receiver to 1.4GHz, who is to say they did not have the capacity to extend the range ( maybe in an uncal mode) to 1GHz? If so, one of these units would cover 400KHz to 2GHz with no interruptions, except to make the jump at 1GHz where the upconverter/downconverter would swap.

Any comments?

On Wed, Oct 30, 2013 at 5:37 PM, <gchafee@...> wrote:

Hi all,

I have been going over a number of bits of older data regarding the HP 8935A's earlier firmware revisions, when I noticed this little item in the A.02.00 firmware:

Agilent 8935 Series E6380A CDMA Base Station Test Set Firmware Enhancements Update

A.02.00 Release Enhancements, February 1999

1.4 GHz Spectrum analyzer frequency extension

Allows you to monitor intermittent/interfering signals at GPS frequencies with the spectrum analyzer. Service providers have found that spectral clearing at GPS frequencies is imperative to CDMA system timing and ultimately network interoperability. Monitoring and spectral clearing at GPS frequencies can help prevent the "island cell effect."

This would appear to indicate the spectrum analyzers ( and therefore the main receivers they are based on ) had extended frequency capabilities beyond the 400KHz to 1GHz and 1.7GHz to 2.0 GHz.

These use the same receivers for the different 8935A and 8286 series, but the 8920's and other related may not have that capability unless they had the downconverter as I would guess this is an extension of the 1.7 to 2.0GHz system.

Does anyone know if the receivers and spectrum analyzers can go down to the 1.4GHz frequency range? I know it would be really nice if the internal converter could make these work from 400KHz to 2GHz with no interruptions ( except probably generate would not work).

Anyone ever see this?

Also anyone ever find if the AF analyzer from a 8920 or 8921 was swapped out for the one in the 8935, if it could then decode radio paging (and the limited trunking decoding from EDACS and other info)? It seems the 8935 is an expanded 8920, but has limited analog decoding.

It would be nice to find a way to turn the quadrature decoding mixers in the CDMA system to use for other non-standard communications protocols. I see the I and Q phase shifted data available on both generate ( transmit) and receive, but probably tinkering with it would end up with a really big brick! It does look like the basics for the first types of SDR radios ( however, this is just to manage signals from the IF).

Jerry

# 1718. Stream ads in the Yahoo user group's conversation area!

Yahoo group: hp8924
Date: 2013-11-09 19:59:50 UTC
From: <alexschwarz237@...>
Topic: 1718  Message: 1718

Hi Everybody;

Yahoo decided to place stream ads into the "Conversation" section. This is highly confusing and misleading.

Please go to this link and voice your displeasure with this method of false advertising.
https://yahoo.uservoice.com/forums/209451-us-groups/suggestions/4496568-stop-putting-advertisements-in-my-group-message-fe?tracking_code=1c51fcf3e994851572b6142e806aef73 https://yahoo.uservoice.com/forums/209451-us-groups/suggestions/4496568-stop-putting-advertisements-in-my-group-message-fe?tracking_code=1c51fcf3e994851572b6142e806aef73
Also, can you please go to this link and tell Yahoo what you think about the ads in the “conversation” section.
You can further go to:
https://yahoo.uservoice.com/forums/209451-us-groups/filters/hot
https://yahoo.uservoice.com/forums/209451-us-groups/filters/hot
And tell Yahoo what you think and you can also vote to keep Yahoo a pleasant experience and knowledge base, without ads.
If you are a administrator of a group please forward this message to all users in other groups you administer.
Thank you;
Alex
Administrator

MDSRadio Group

# 1719. Re: Stream ads in the Yahoo user group's conversation area!

Yahoo group: hp8924
Date: 2013-11-09 22:05:11 UTC
From: wb6dgn_tom@att.net
Topic: 1718  Message: 1719

I don't see any ads. Perhaps its because I'm using AdBlock? Seems to me that that's a lot easier than arguing with yahoo where you'll have a snowball's chance in h*** to get any results. Its been my experience that yahoo could care less what their users think.
Tom

--- In hp8924@yahoogroups.com, <alexschwarz237@...> wrote:
>
> Hi Everybody;
>
> Yahoo decided to place stream ads into the "Conversation" section. This is highly confusing and misleading.
>
> Please go to this link and voice your displeasure with this method of false advertising.
> https://yahoo.uservoice.com/forums/209451-us-groups/suggestions/4496568-stop-putting-advertisements-in-my-group-message-fe?tracking_code=1c51fcf3e994851572b6142e806aef73 https://yahoo.uservoice.com/forums/209451-us-groups/suggestions/4496568-stop-putting-advertisements-in-my-group-message-fe?tracking_code=1c51fcf3e994851572b6142e806aef73
> Also, can you please go to this link and tell Yahoo what you think about the ads in the â□□conversationâ□□ section.
> You can further go to:
> https://yahoo.uservoice.com/forums/209451-us-groups/filters/hot https://yahoo.uservoice.com/forums/209451-us-groups/filters/hot
> And tell Yahoo what you think and you can also vote to keep Yahoo a pleasant experience and knowledge base, without ads.
> If you are a administrator of a group please forward this message to all users in other groups you administer.
> Thank you;
> Alex
> Administrator
>
>
> MDSRadio Group
>

# 1720. RE: Re: Stream ads in the Yahoo user group's conversation area!

Yahoo group: hp8924
Date: 2013-11-10 19:28:50 UTC
From: <alexschwarz237@...>
Topic: 1718  Message: 1720

Hi Everybody;

I would also suggest that people at least read the following Yahoo Group to see how we are pursuing getting things changed; I personally would like to see an option for people to have a choice of interfaces, but a rollback of the new interface would be a nice start and having Yahoo do real beta testing on this would be good.

Matthew Pitts
N8OHU
Moderator of modsandmebers Yahoo Group

If you are concerned about the Yahoo user groups and their future, please join this group and make your voice heard….

http://groups.yahoo.com/group/modsandmembers http://groups.yahoo.com/group/modsandmembers

Alex Schwarz
Administrator
MDSRadio

---In hp8924@yahoogroups.com, <wb6dgn_tom@...> wrote:

I don't see any ads. Perhaps its because I'm using AdBlock? Seems to me that that's a lot easier than arguing with yahoo where you'll have a snowball's chance in h*** to get any results. Its been my experience that yahoo could care less what their users think.
Tom

--- In hp8924@yahoogroups.com mailto:hp8924@yahoogroups.com, <alexschwarz237@...> wrote:
>
> Hi Everybody;
>
> Yahoo decided to place stream ads into the "Conversation" section. This is highly confusing and misleading.
>
> Please go to this link and voice your displeasure with this method of false advertising.
> https://yahoo.uservoice.com/forums/209451-us-groups/suggestions/4496568-stop-putting-advertisements-in-my-group-message-fe?tracking_code=1c51fcf3e994851572b6142e806aef73 https://yahoo.uservoice.com/forums/209451-us-groups/suggestions/4496568-stop-putting-advertisements-in-my-group-message-fe?tracking_code=1c51fcf3e994851572b6142e806aef73 https://yahoo.uservoice.com/forums/209451-us-groups/suggestions/4496568-stop-putting-advertisements-in-my-group-message-fe?tracking_code=1c51fcf3e994851572b6142e806aef73 https://yahoo.uservoice.com/forums/209451-us-groups/suggestions/4496568-stop-putting-advertisements-in-my-group-message-fe?tracking_code=1c51fcf3e994851572b6142e806aef73
> Also, can you please go to this link and tell Yahoo what you think about the ads in the â□□conversationâ□□ section.
> You can further go to:
> https://yahoo.uservoice.com/forums/209451-us-groups/filters/hot
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https://yahoo.uservoice.com/forums/209451-us-groups/filters/hot
https://yahoo.uservoice.com/forums/209451-us-groups/filters/hot
> And tell Yahoo what you think and you can also vote to keep Yahoo a pleasant experience and knowledge base, without ads.
> If you are a administrator of a group please forward this message to all users in other groups you administer.
> Thank you;
> Alex
> Administrator
>
>
> MDSRadio Group
>

# 1721. RE: Stream ads in the Yahoo user group's conversation area!

Yahoo group: hp8924
Date: 2013-11-10 19:29:08 UTC
From: <alexschwarz237@...>
Topic: 1718  Message: 1721

Hi Everybody;

I would also suggest that people at least read the following Yahoo Group to see how we are pursuing getting things changed; I personally would like to see an option for people to have a choice of interfaces, but a rollback of the new interface would be a nice start and having Yahoo do real beta testing on this would be good.

Matthew Pitts
N8OHU
Moderator of modsandmebers Yahoo Group

If you are concerned about the Yahoo user groups and their future, please join this group and make your voice heard….

http://groups.yahoo.com/group/modsandmembers http://groups.yahoo.com/group/modsandmembers

Alex Schwarz
Administrator
MDSRadio

---In hp8924@yahoogroups.com, <alexschwarz237@...> wrote:

Hi Everybody;

Yahoo decided to place stream ads into the "Conversation" section. This is highly confusing and misleading.

Please go to this link and voice your displeasure with this method of false advertising.
https://yahoo.uservoice.com/forums/209451-us-groups/suggestions/4496568-stop-putting-advertisements-in-my-group-message-fe?tracking_code=1c51fcf3e994851572b6142e806aef73 https://yahoo.uservoice.com/forums/209451-us-groups/suggestions/4496568-stop-putting-advertisements-in-my-group-message-fe?tracking_code=1c51fcf3e994851572b6142e806aef73
Also, can you please go to this link and tell Yahoo what you think about the ads in the “conversation” section.
You can further go to:
https://yahoo.uservoice.com/forums/209451-us-groups/filters/hot
https://yahoo.uservoice.com/forums/209451-us-groups/filters/hot
And tell Yahoo what you think and you can also vote to keep Yahoo a pleasant experience and knowledge base, without ads.
If you are a administrator of a group please forward this message to all users in other groups you administer.
Thank you;
Alex
Administrator

MDSRadio Group

# 1722. RE: Stream ads in the Yahoo user group's conversation area!

Yahoo group: hp8924
Date: 2013-11-12 03:23:59 UTC
From: <alexschwarz237@...>
Topic: 1718  Message: 1722

HI Everybody;

I have found a way to block the annoying ads on the Yahoo site altogether, but it only works if you use Firefox. I recommend that everybody upgrades to Firefox anyways. There is an add on called Adblock Plus that can be installed onto Firefox and all the ads will not be downloaded to your computer. This is great, because all the adverts take up bandwidth.

If you already use Firefox here is the link to Adblock Plus:https://addons.mozilla.org/en-US/firefox/addon/adblock-plus/
https://addons.mozilla.org/en-US/firefox/addon/adblock-plus/
https://addons.mozilla.org/en-US/firefox/addon/adblock-plus/
Never be bothered by inappropriate and annoying ads that waste your internet speed and can become costly if you are past your data limit.

Alex
VE7DXW

---In hp8924@yahoogroups.com, <alexschwarz237@...> wrote:

Hi Everybody;

I would also suggest that people at least read the following Yahoo Group to see how we are pursuing getting things changed; I personally would like to see an option for people to have a choice of interfaces, but a rollback of the new interface would be a nice start and having Yahoo do real beta testing on this would be good.

Matthew Pitts
N8OHU
Moderator of modsandmebers Yahoo Group

If you are concerned about the Yahoo user groups and their future, please join this group and make your voice heard….

http://groups.yahoo.com/group/modsandmembers http://groups.yahoo.com/group/modsandmembers

Alex Schwarz
Administrator
MDSRadio

---In hp8924@yahoogroups.com, <alexschwarz237@...> wrote:

Hi Everybody;

Yahoo decided to place stream ads into the "Conversation" section. This is highly confusing and misleading.

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tisements-in-my-group-message-fe?tracking_code=1c51fcf3e994851572b6142e806aef73 https://yahoo.uservoice.com/forums/209451-us-groups/suggestions/4496568-stop-putting-advertisements-in-my-group-message-fe?tracking_code=1c51fcf3e994851572b6142e806aef73
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You can further go to:
https://yahoo.uservoice.com/forums/209451-us-groups/filters/hot
https://yahoo.uservoice.com/forums/209451-us-groups/filters/hot
And tell Yahoo what you think and you can also vote to keep Yahoo a pleasant experience and knowledge base, without ads.
If you are a administrator of a group please forward this message to all users in other groups you administer.
Thank you;
Alex
Administrator

MDSRadio Group

# 1723. Re: [hp8924] HP 8935A Service Monitors Spectrum Analyzer extended range in firmware?

Yahoo group: hp8924
Date: 2013-11-12 08:16:36 UTC
From: Tim
Topic: 1689  Message: 1723

On 5/11/2013 1:40 PM, Adam Farson wrote:
>
> Hi Tim,
>
> My 8935 is a late model (S/N prefix GB41) and the firmware version is
> B.04.00. Its spectrum analyser tunes down t0 1400 MHz.
>
>
Hi Adam,

Just got back from holidays and checked the firmware in my 8935 and its
the same as yours. It has the same range too.

I bought mine from Amtronix and had it calibrated by Rick prior to
shipment.

I had asked Rick previously about range extension but he had no answers
at that time.

regards

Tim

--
VK2XAX :: QF56if23 :: BMARC :: WIA

---
This email is free from viruses and malware because avast! Antivirus protection is active.
http://www.avast.com

# 1724. Re: Stream ads in the Yahoo user group's conversation area!

Yahoo group: hp8924
Date: 2013-11-12 21:01:13 UTC
From: wb6dgn_tom@att.net
Topic: 1718  Message: 1724

GEE! That name sounds familiar; where have I heard that before?

Previous post from WB6DGN: "I don't see any ads. Perhaps its because I'm using AdBlock? Seems to me that that's a lot easier than arguing with yahoo..."

Geeesh!
Tom

--- In hp8924@yahoogroups.com, <alexschwarz237@...> wrote:
>
> HI Everybody;
>
>
> I have found a way to block the annoying ads on the Yahoo site altogether, but it only works if you use Firefox. I recommend that everybody upgrades to Firefox anyways. There is an add on called Adblock Plus that can be installed onto Firefox and all the ads will not be downloaded to your computer. This is great, because all the adverts take up bandwidth.
>
>
> If you already use Firefox here is the link to Adblock Plus:https://addons.mozilla.org/en-US/firefox/addon/adblock-plus/
https://addons.mozilla.org/en-US/firefox/addon/adblock-plus/
> https://addons.mozilla.org/en-US/firefox/addon/adblock-plus/
> Never be bothered by inappropriate and annoying ads that waste your internet speed and can become costly if you are past your data limit.
>
>
> Alex
> VE7DXW
>
>
>
>

# 1725. Re: Stream ads in the Yahoo user group's conversation area!

Yahoo group: hp8924
Date: 2013-11-12 21:02:35 UTC
From: wb6dgn_tom@att.net
Topic: 1718  Message: 1725

GEE! That name sounds familiar; where have I heard that before?

Previous post from WB6DGN: "I don't see any ads. Perhaps its because I'm using AdBlock? Seems to me that that's a lot easier than arguing with yahoo..."

Geeesh!
Tom

--- In hp8924@yahoogroups.com, <alexschwarz237@...> wrote:
>
> HI Everybody;
>
>
> I have found a way to block the annoying ads on the Yahoo site altogether, but it only works if you use Firefox. I recommend that everybody upgrades to Firefox anyways. There is an add on called Adblock Plus that can be installed onto Firefox and all the ads will not be downloaded to your computer. This is great, because all the adverts take up bandwidth.
>
>
> If you already use Firefox here is the link to Adblock Plus:https://addons.mozilla.org/en-US/firefox/addon/adblock-plus/
https://addons.mozilla.org/en-US/firefox/addon/adblock-plus/
> https://addons.mozilla.org/en-US/firefox/addon/adblock-plus/
> Never be bothered by inappropriate and annoying ads that waste your internet speed and can become costly if you are past your data limit.
>
>
> Alex
> VE7DXW
>
>
>
>

# 1726. false spurs on spectrum analizer

Yahoo group: hp8924
Date: 2013-11-19 00:45:42 UTC
From: <ku4pt@...>
Topic: 1726  Message: 1726

I was playing around with a transmiitter going into a dummy load . The dummy load has a tap that is about 40 db down at 150 mhz. Going into the power input port and sweeping from 30 to 1000 mhz I noticed about 8or 10 spurs that would show up if I moved the atuenuator on the 8924c up and down. If I only swep 100 or 200 mhz the spurs did not show up. I am not overloading the 8924 as the main signal is still two major devisions below the top of the screen. The spurs show up almost as much.

Going into the antenna p;ort shows up the same.

Has anyone else noticed that sweeping a large range will show spurs,but without changing a thing other than the sweep the spurs seem to dissapear.

# 1727. RE: [hp8924] false spurs on spectrum analyzer

Yahoo group: hp8924
Date: 2013-11-19 05:11:11 UTC
From: Adam Farson
Topic: 1726  Message: 1727
Attachments: 1 described; binary payloads are missing from this source WARC

Would you like me to check this on my 8935?

73, Adam VA7OJ/AB4OJ

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of ku4pt@...
Sent: 18-Nov-13 16:46
To: hp8924@yahoogroups.com
Subject: [hp8924] false spurs on spectrum analizer

I was playing around with a transmiitter going into a dummy load . The dummy load has a tap that is about 40 db down at 150 mhz. Going into the power input port and sweeping from 30 to 1000 mhz I noticed about 8or 10 spurs that would show up if I moved the atuenuator on the 8924c up and down. If I only swep 100 or 200 mhz the spurs did not show up. I am not overloading the 8924 as the main signal is still two major devisions below the top of the screen. The spurs show up almost as much.

Going into the antenna p;ort shows up the same.

Has anyone else noticed that sweeping a large range will show spurs,but without changing a thing other than the sweep the spurs seem to dissapear.

# 1728. Re: false spurs on spectrum analizer

Yahoo group: hp8924
Date: 2013-11-19 15:27:57 UTC
From: Rhyolite@leikhim.com
Topic: 1726  Message: 1728

If you are changing the attenuator setting the main signal amplitude may be topping out. This can happen if the attenuator logic momentarily switches out attenuation stages. As the Dr said if it hurts don't do it.

Sent from my iPod

# 1729. Re: [hp8924] Re: false spurs on spectrum analizer

Yahoo group: hp8924
Date: 2013-11-19 17:28:06 UTC
From: Ralph Mowery
Topic: 1726  Message: 1729

I think I have found the problem.  I was over driving the SA but did not think I was.  I know over driving the SA will produce a screen similar to what I was seeing.

Comming out of a transmitter at 146 mhz with 80 watts going into a dummy load that has a tap of about 50 db and going into the 8924c.  My 8924c will take 60 watts on the power in port.

The tracking generator is cut off for the tests.

I have found that if I set the center frequency to 500 mhz and a span of 1000 mhz the SA screen just shows a small signal just out of the 'grass'.  If I set it for a center of 499 mhz with the same span, the screen shows a signal that goes off the top of the screen unless I change the atteunator  setting on the 8924c.  It also works for other combinations such as 400 and 800 mhz.  If I use 399 and 800 it works normally.

That explains the 'phantom spurs'.  For whatever reason I can not set the center frequency to exectally half of the span and get a true display. If I set it just a very small offset the signal gets larger but still not full value, but it takes about 1 mhz to eliminate the problem. I guess it is one of the quarks of the instrument.  I have dealt with instruments of all kinds enough to not let this bother me as they all seem to have them, it is just finding them and knowing how to deal with them.

Now that I have the phantom spurs solved, I can see the harmonics of the transmitte which are way down where they should be.

>_____
>From: "Rhyolite@leikhim.com" <rhyolite@...>
>To: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
>Sent: Tuesday, November 19, 2013 10:27 AM
>Subject: [hp8924] Re: false spurs on spectrum analizer
>
>
>If you are changing the attenuator setting the main signal amplitude may be topping out. This can happen if the attenuator logic momentarily switches out attenuation stages. As the Dr said if it hurts don't do it.
>
>

# 1730. Re: [hp8924] false spurs on spectrum analyzer

Yahoo group: hp8924
Date: 2013-11-19 17:35:52 UTC
From: Ralph Mowery
Topic: 1726  Message: 1730
Attachments: 1 described; binary payloads are missing from this source WARC

If you see my comments on another posting you may try that.  Set you span to exectally two times the center frequency and put in a signal .  Then without changing anything change the center frequency about 1 or 2 mhz lower and see if the signal level shows a change.

That is set the center to 500 mhz and a span to 1000.  Input a signal of 150 mhz and look at the level on the screen.  Then set the center frequency to 499mhz and look at the signal level.  You can also try this with a center of 400 and 800 mhz.

Seems to be a quark on my 8924c that I can not set the span exectally two times the center frequency and get accurate results.

>_____
>From: Adam Farson <farson@...>
>To: hp8924@yahoogroups.com
>Sent: Tuesday, November 19, 2013 12:11 AM
>Subject: RE: [hp8924] false spurs on spectrum analyzer
>
>
>
>
>
>
>Would you like me to check this on my 8935?
>
>
>73, Adam VA7OJ/AB4OJ
>
>
>
>From:hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of ku4pt@yahoo.com
>Sent: 18-Nov-13 16:46
>To: hp8924@yahoogroups.com
>Subject: [hp8924] false spurs on spectrum analizer
>
>
>
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>
>I was playing around with a transmiitter going into a dummy load .  The dummy load has a tap that is about 40 db down at 150 mhz.  Going into the power input port and sweeping from 30 to 1000 mhz I noticed about 8or 10 spurs that would show up if I moved the atuenuator on the 8924c up and down.  If I only swep 100 or 200 mhz the spurs did not show up.  I am not overloading the 8924 as the main signal is still two major devisions below the top of the screen. The spurs show up almost as much.
>

>Going into the antenna p;ort shows up the same.
>
>Has anyone else noticed that sweeping a large range will show spurs,but without changing a thing other than the sweep the spurs seem to dissapear.
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# 1731. RE: [hp8924] false spurs on spectrum analyzer

Yahoo group: hp8924
Date: 2013-11-19 19:44:26 UTC
From: Adam Farson
Topic: 1726  Message: 1731
Attachments: 1 described; binary payloads are missing from this source WARC

I tried this on my 8935 (E6380A), using 500 MHz centre frequency and 1 GHz span. The signal source was the instrument's internal signal generator, with tracking off, f0 = 500 MHz and level = -26 dBm. RF Gen output was RF Out, and SA input was RF In (loopback).

With Ref Level on the spectrum analyser at 10 dBm, I saw a baseline (grass) with the f0 = 500 MHz spike in the centre and the zero-frequency spike on the left. There were no spurs.

73, Adam VA7OJ/AB4OJ

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Ralph Mowery
Sent: 19-Nov-13 09:36
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] false spurs on spectrum analyzer

If you see my comments on another posting you may try that. Set you span to exectally two times the center frequency and put in a signal . Then without changing anything change the center frequency about 1 or 2 mhz lower and see if the signal level shows a change.

That is set the center to 500 mhz and a span to 1000. Input a signal of 150 mhz and look at the level on the screen. Then set the center frequency to 499mhz and look at the signal level. You can also try this with a center of 400 and 800 mhz.

Seems to be a quark on my 8924c that I can not set the span exectally two times the center frequency and get accurate results.

From: Adam Farson <farson@...>
To: hp8924@yahoogroups.com
Sent: Tuesday, November 19, 2013 12:11 AM
Subject: RE: [hp8924] false spurs on spectrum analyzer

Would you like me to check this on my 8935?

73, Adam VA7OJ/AB4OJ

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of ku4pt@...
Sent: 18-Nov-13 16:46
To: hp8924@yahoogroups.com
Subject: [hp8924] false spurs on spectrum analizer

I was playing around with a transmiitter going into a dummy load . The dummy load has a tap that is about 40 db down at 150 mhz. Going into the

power input port and sweeping from 30 to 1000 mhz I noticed about 8or 10 spurs that would show up if I moved the atuenuator on the 8924c up and down. If I only swep 100 or 200 mhz the spurs did not show up. I am not overloading the 8924 as the main signal is still two major devisions below the top of the screen. The spurs show up almost as much.

Going into the antenna p;ort shows up the same.

Has anyone else noticed that sweeping a large range will show spurs,but without changing a thing other than the sweep the spurs seem to dissapear.

# 1732. RE: RE: [hp8924] false spurs on spectrum analyzer

Yahoo group: hp8924
Date: 2013-11-20 16:48:22 UTC
From: <ku4pt@...>
Topic: 1726  Message: 1732

I think I have gotten to the bottom of that problem, but noticed something else during the process.

I was using the AVG function and had it set to 1. This was to smooth out the traces. While the SA was set to sweep 400 mhz and the center set to 200, I used an external old analog signal generator to apply a signal. As I turned the dial on the external generator at points on the screen the signal would be the amplitude it was suspose to be, move 10mhz and it may be 20 db weaker than it was suspose to be, and at other frequencies it may not show at all. I did some tests and the external generator was putting out.
When I set the 8924c to NO AVG/PK HOLD the signal generator signal would move across the screen like I thought it should. Having it set to AVG value of 1 must have been messing up what the screen shows vers what I thought it should.

hp8924@yahoogroups.com mailto:hp8924@yahoogroups.com, <farson@...> wrote:

I tried this on my 8935 (E6380A), using 500 MHz centre frequency and 1 GHz span. The signal source was the instrument’s internal signal generator, with tracking off, f0 = 500 MHz and level = -26 dBm. RF Gen output was RF Out, and SA input was RF In (loopback).

With Ref Level on the spectrum analyser at 10 dBm, I saw a baseline (grass) with the f0 = 500 MHz spike in the centre and the zero-frequency spike on the left. There were no spurs.

73, Adam VA7OJ/AB4OJ

# 1733. Re: [hp8924] HP 8935A Service Monitors Spectrum Analyzer extended range in firmware?

Yahoo group: hp8924
Date: 2013-12-02 16:13:32 UTC
From: Gerald Chafee
Topic: 1689  Message: 1733

Adam,

I have a second 8935 that I had packed away (was awaiting for a unit with the high stab ref), and found the one packed away has the B3.10 firmware. It does go to 1.4 GHZ in Spectrum Analyzer mode, but receive is the standard 400KHz to 1GHz, then 1.7GHz to 2.0GHz.

It Is too bad there is not a source code version of the firmware where it would be possible to alter settings. It would be nice to extend the range for receive, and to maybe reconfigure the CDMA portion to do something different (not sure what though :) ) .

Jerry

On Tue, Nov 5, 2013 at 2:49 PM, Adam Farson <farson@...> wrote:

>
>
> Hi Jerry,
>
>
>
> My 8935 is an E6380A (CDMA). I checked the receiver (RF Analyser) and it
> covers only 0.4 – 1000 MHz and 1700-2000 MHz. I was able to “stretch” the
> RF Generator to 1015 MHz but it rejected entries > 1015 MHz.
>
>
>
> I did a search on the firmware, but no go. About the only place I can
> think of which may have it is an HP/Agilent calibration centre. You could
> try Rick Bowman at Amtronix Instruments.
>
>
>
> http://www.amtronix.com
>
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>
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>
> Cheers for now,
>
> Adam
>
>

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>
> *From:* hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] *On Behalf
> Of *Gerald Chafee
> *Sent:* 5-Nov-13 07:07
>
> *To:* hp8924@yahoogroups.com
> *Subject:* Re: [hp8924] HP 8935A Service Monitors Spectrum Analyzer
> extended range in firmware?
>
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>
> Adam,
>
>
>
> Is yours a E6380A (CDMA) or E6381A (TDMA)
>
>
>
> Does the receiver and receiver measurements work from 1400MHZ to 2000MHZ?
>
>
>
> Since this is all comes from the same IF, it would seem logical it would
> allow other measurements then just the Spectrum Analyzer.
>
>
>
> Too bad there is not an easy way to hack the firmware as it should be able
> to go from 1400MHZ to 2200MHZ through the entire receive/analyzer train.
>
>
>
> Any ideas how to get the newer firmware to upgrade the older version?
>
>
>
> Jerry
>
>
>
> On Mon, Nov 4, 2013 at 9:40 PM, Adam Farson <farson@...> wrote:
>

>
>
> Hi Tim,
>
>
>
> My 8935 is a late model (S/N prefix GB41) and the firmware version is
> B.04.00. Its spectrum analyser tunes down t0 1400 MHz.
>
>
>
> A non-invasive method for 1.2 GHz operation is an external mixer/LO. One
> could derive a 200 MHz LO signal by phase-locking a Mini-Circuits VCO to
> one of the clock outputs from the 8935. A 1.2 GHz bandpass filter at the
> mixer’s RF port would keep down spurious outputs/responses (e.g. the
> opposite sideband of the mix.)
>
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>
> 73, Adam VA7OJ/AB4OJ
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>
> *From:* hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] *On Behalf
> Of *Tim Tuck
> *Sent:* 4-Nov-13 14:03
> *To:* hp8924@yahoogroups.com
> *Subject:* Re: [hp8924] HP 8935A Service Monitors Spectrum Analyzer
> extended range in firmware?
>
>
>
>
>
> I'd love this to be possible so I can work on stuff at 1296.
>
>
>
> I'll be watching this thread with interest :)
>
>
>
> Cheers
>

> Tim
>
> Sent from my iPhone
>
>
> On 5 Nov 2013, at 3:07, Gerald Chafee <gchafee@...> wrote:
>
>
>
> Hello Everyone on this forum,
>
>
>
> Did my post not generate any interest?
>
>
>
> If there really was a way in firmware to extend the receiver to 1.4GHz,
> who is to say they did not have the capacity to extend the range ( maybe in
> an uncal mode) to 1GHz? If so, one of these units would cover 400KHz to
> 2GHz with no interruptions, except to make the jump at 1GHz where the
> upconverter/downconverter would swap.
>
>
>
> Any comments?
>
>
>
> On Wed, Oct 30, 2013 at 5:37 PM, <gchafee@...> wrote:
>
>
>
> Hi all,
>
>
> I have been going over a number of bits of older data regarding the HP
> 8935A's earlier firmware revisions, when I noticed this little item in the
> A.02.00 firmware:
>
>
>
> Agilent 8935 Series E6380A CDMA Base Station Test Set Firmware
> Enhancements Update
>
>
>
> A.02.00 Release Enhancements, February 1999
>
>

> 1.4 GHz Spectrum analyzer frequency extension
>
>
> Allows you to monitor intermittent/interfering signals at GPS frequencies
> with the spectrum analyzer. Service providers have found that spectral
> clearing at GPS frequencies is imperative to CDMA system timing and
> ultimately network interoperability. Monitoring and spectral clearing at
> GPS frequencies can help prevent the "island cell effect."
>
>
> This would appear to indicate the spectrum analyzers ( and therefore the
> main receivers they are based on ) had extended frequency capabilities
> beyond the 400KHz to 1GHz and 1.7GHz to 2.0 GHz.
>
>
> These use the same receivers for the different 8935A and 8286 series, but
> the 8920's and other related may not have that capability unless they had
> the downconverter as I would guess this is an extension of the 1.7 to
> 2.0GHz system.
>
>
> Does anyone know if the receivers and spectrum analyzers can go down to
> the 1.4GHz frequency range? I know it would be really nice if the internal
> converter could make these work from 400KHz to 2GHz with no interruptions (
> except probably generate would not work).
>
>
> Anyone ever see this?
>
>
> Also anyone ever find if the AF analyzer from a 8920 or 8921 was swapped
> out for the one in the 8935, if it could then decode radio paging (and the
> limited trunking decoding from EDACS and other info)? It seems the 8935 is
> an expanded 8920, but has limited analog decoding.
>
>
> It would be nice to find a way to turn the quadrature decoding mixers in
> the CDMA system to use for other non-standard communications protocols. I
> see the I and Q phase shifted data available on both generate ( transmit)
> and receive, but probably tinkering with it would end up with a really big
> brick! It does look like the basics for the first types of SDR radios (
> however, this is just to manage signals from the IF).
>
>
> Jerry
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# 1734. RE: [hp8924] HP 8935A Service Monitors Spectrum Analyzer extended range in firmware?

Yahoo group: hp8924
Date: 2013-12-03 07:38:28 UTC
From: Adam Farson
Topic: 1689  Message: 1734
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Jerry,

Very good on the unit with the B3.10 firmware. Does it have the high-stab reference board as well?

I have never seen firmware source code for these instruments. It would be great to re-work the CDMA code to provide an I/Q baseband from an analogue input signal.

73, Adam VA7OJ/AB4OJ

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Gerald Chafee
Sent: 2-Dec-13 08:14
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] HP 8935A Service Monitors Spectrum Analyzer extended range in firmware?

Adam,

I have a second 8935 that I had packed away (was awaiting for a unit with the high stab ref), and found the one packed away has the B3.10 firmware. It does go to 1.4 GHZ in Spectrum Analyzer mode, but receive is the standard 400KHz to 1GHz, then 1.7GHz to 2.0GHz.

It Is too bad there is not a source code version of the firmware where it would be possible to alter settings. It would be nice to extend the range for receive, and to maybe reconfigure the CDMA portion to do something different (not sure what though :) ) .

Jerry

On Tue, Nov 5, 2013 at 2:49 PM, Adam Farson <farson@...> wrote:

Hi Jerry,

My 8935 is an E6380A (CDMA). I checked the receiver (RF Analyser) and it covers only 0.4 - 1000 MHz and 1700-2000 MHz. I was able to "stretch" the RF Generator to 1015 MHz but it rejected entries > 1015 MHz.

I did a search on the firmware, but no go. About the only place I can think of which may have it is an HP/Agilent calibration centre. You could try Rick Bowman at Amtronix Instruments.

http://www.amtronix.com

Cheers for now,

Adam

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Gerald Chafee
Sent: 5-Nov-13 07:07

To: hp8924@yahoogroups.com
Subject: Re: [hp8924] HP 8935A Service Monitors Spectrum Analyzer extended range in firmware?

Adam,

Is yours a E6380A (CDMA) or E6381A (TDMA)

Does the receiver and receiver measurements work from 1400MHZ to 2000MHZ?

Since this is all comes from the same IF, it would seem logical it would allow other measurements then just the Spectrum Analyzer.

Too bad there is not an easy way to hack the firmware as it should be able to go from 1400MHZ to 2200MHZ through the entire receive/analyzer train.

Any ideas how to get the newer firmware to upgrade the older version?

Jerry

On Mon, Nov 4, 2013 at 9:40 PM, Adam Farson <farson@...> wrote:

Hi Tim,

My 8935 is a late model (S/N prefix GB41) and the firmware version is B.04.00. Its spectrum analyser tunes down t0 1400 MHz.

A non-invasive method for 1.2 GHz operation is an external mixer/LO. One could derive a 200 MHz LO signal by phase-locking a Mini-Circuits VCO to one of the clock outputs from the 8935. A 1.2 GHz bandpass filter at the mixer's RF port would keep down spurious outputs/responses (e.g. the opposite sideband of the mix.)

73, Adam VA7OJ/AB4OJ

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Tim Tuck
Sent: 4-Nov-13 14:03
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] HP 8935A Service Monitors Spectrum Analyzer extended range in firmware?

I'd love this to be possible so I can work on stuff at 1296.

I'll be watching this thread with interest :)

Cheers

Tim

Sent from my iPhone

On 5 Nov 2013, at 3:07, Gerald Chafee <gchafee@...> wrote:

Hello Everyone on this forum,

Did my post not generate any interest?

If there really was a way in firmware to extend the receiver to 1.4GHz, who is to say they did not have the capacity to extend the range ( maybe in an uncal mode) to 1GHz? If so, one of these units would cover 400KHz to 2GHz with no interruptions, except to make the jump at 1GHz where the upconverter/downconverter would swap.

Any comments?

On Wed, Oct 30, 2013 at 5:37 PM, <gchafee@...> wrote:

Hi all,

I have been going over a number of bits of older data regarding the HP 8935A's earlier firmware revisions, when I noticed this little item in the A.02.00 firmware:

Agilent 8935 Series E6380A CDMA Base Station Test Set Firmware Enhancements Update

A.02.00 Release Enhancements, February 1999

1.4 GHz Spectrum analyzer frequency extension

Allows you to monitor intermittent/interfering signals at GPS frequencies with the spectrum analyzer. Service providers have found that spectral clearing at GPS frequencies is imperative to CDMA system timing and ultimately network interoperability. Monitoring and spectral clearing at GPS frequencies can help prevent the "island cell effect."

This would appear to indicate the spectrum analyzers ( and therefore the main receivers they are based on ) had extended frequency capabilities beyond the 400KHz to 1GHz and 1.7GHz to 2.0 GHz.

These use the same receivers for the different 8935A and 8286 series, but the 8920's and other related may not have that capability unless they had the downconverter as I would guess this is an extension of the 1.7 to 2.0GHz system.

Does anyone know if the receivers and spectrum analyzers can go down to the 1.4GHz frequency range? I know it would be really nice if the internal converter could make these work from 400KHz to 2GHz with no interruptions ( except probably generate would not work).

Anyone ever see this?

Also anyone ever find if the AF analyzer from a 8920 or 8921 was swapped out for the one in the 8935, if it could then decode radio paging (and the limited trunking decoding from EDACS and other info)? It seems the 8935 is an expanded 8920, but has limited analog decoding.

It would be nice to find a way to turn the quadrature decoding mixers in the CDMA system to use for other non-standard communications protocols. I see the I and Q phase shifted data available on both generate ( transmit) and receive, but probably tinkering with it would end up with a really big brick! It does look like the basics for the first types of SDR radios ( however, this is just to manage signals from the IF).

Jerry

# 1735. Re: [hp8924] HP 8935A Service Monitors Spectrum Analyzer extended range in firmware?

Yahoo group: hp8924
Date: 2013-12-03 09:06:02 UTC
From: Tim
Topic: 1689  Message: 1735

On 3/12/2013 3:13 AM, Gerald Chafee wrote:
> Adam,
> I have a second 8935 that I had packed away (was awaiting for a unit
> with the high stab ref), and found the one packed away has the B3.10
> firmware. It does go to 1.4 GHZ in Spectrum Analyzer mode, but receive
> is the standard 400KHz to 1GHz, then 1.7GHz to 2.0GHz.
> It Is too bad there is not a source code version of the firmware where
> it would be possible to alter settings. It would be nice to extend the
> range for receive, and to maybe reconfigure the CDMA portion to do
> something different (not sure what though :) ) .
>
Hi Gerald,

I've finally got around to looking at my firmware rev and its B.04.00
and my SA goes to 1.4Ghz too.

If we could find a way to dump the ROM it might be possible to decompile
the assembler possibly with GDB and get some insight as to what it does.

Or if someone finds a PC card upgrade kit, pull the firmware from that
and take a peek.

regards

Tim

--
VK2XAX :: QF56if23 :: BMARC :: WIA

---
This email is free from viruses and malware because avast! Antivirus protection is active.
http://www.avast.com

# 1736. Re: [hp8924] Re: [Hp8920] Hp 8920 Power Supply

Yahoo group: hp8924
Date: 2013-12-03 16:47:26 UTC
From: Ralph S. Turk
Topic: 1236  Message: 1736

I received a call from from Ron Stout re 8920 Power supply.
Power clinic could not remember repairing the PS. The following is
the contact information
Ralph, W7HSG

----- Original Message -----
From: "Ralph S. Turk" <w7hsg@...>
To: hp8920@..., "hp8924" <hp8924@yahoogroups.com>
Sent: Wednesday, November 28, 2012 3:17:58 PM
Subject: [hp8924] Re: [Hp8920] Hp 8920 Power Supply

For Information
I found a company in Texas that will repair the HP 8920A power supply for a flat rate
.The quote is $100 repair. They will also change all the capacitors for a additional
$ 50.oo. Just sent it off so we will see.
Company is: Power Clinic Inc
12901 Nicholson Rd
Dallas Texas 75234
Phone 972-620-9711
Email help@powerclinicinc.com
Contact Brian Hill

----- Original Message -----
From: "Tom Holmes" <tholmes@...>
To: hp8920@...
Sent: Tuesday, November 27, 2012 4:23:42 PM
Subject: Re: [Hp8920] Hp 8920 Power Supply

I couldn't find anything on the A9 Power Supply module, but did find this
doc on A's web site that does have schematics for many of the other
assemblies. Makes me wonder of the base power supply was a purchased unit
and they didn't have a schematic for it. The closest it comes is that it
does have the A10 regulator module schematic.

My guess is that RT is a Thermistor; maybe used to shut down if air flow
isn't high enough?

Here is the link to that doc...

http://www.home.agilent.com/upload/cmc_upload/All/8920_Component_Level_Infor
mation_Packet.pdf

Tom Holmes, N8ZM
EM79

> -----Original Message-----
> From: hp8920-bounces@... [mailto:hp8920-bounces@...] On

> Behalf Of Ralph S. Turk
> Sent: Tuesday, November 27, 2012 5:22 PM
> To: hp8920@...
> Subject: [Hp8920] Hp 8920 Power Supply
>
>
>
>
> Hi All
> Have a 8920 with a dead power supply
> AC only DC ok.
>
>
> Found a block diagram. Page 467 gives a block of the power supply. Really
need
> a schematic.
>
> Removed power supply. Examination reveals that RT 1 is burned. Now the
> question, what is RT 1?
> Looks like a thermistor. Could be a MOV. But what value and function.
> Did it just fail? Lots of questions looking for answers.
> Any ideas out there.
>
>
> Ralph,W7HSG
>
> _____
> Hp8920 mailing list
> Hp8920@...
> https://www.febo.com/cgi-bin/mailman/listinfo/hp8920

_____
Hp8920 mailing list
Hp8920@...
https://www.febo.com/cgi-bin/mailman/listinfo/hp8920

# 1737. HP 8920 Video

Yahoo group: hp8924
Date: 2013-12-04 03:16:13 UTC
From: <emrnyc@...>
Topic: 1737  Message: 1737

Does anyone have a copy of the 8920 video. I believe it was a training
or marketing video.
Thanks
Martin

8 EMS - 37 PAPD - 23 NYPD - 343 FDNY
Never forget our Brother & Sister Heroes 9/11/01.
It was not how they died that made them heroes.....
It was how they lived!

Check out Emergency Medical Rescue of New York City's website www.EMRNYC.com
http://www.emrnyc.com/

Contact Us:
Telephone 718 474 0680 Email: info@EMRNYC.com mailto:info@EMRNYC.com

# 1738. Re: [hp8924] HP 8920 Video

Yahoo group: hp8924
Date: 2013-12-04 04:54:24 UTC
From: Ralph Mowery
Topic: 1737  Message: 1738

Look here for it.  It is about  1.2 GB and will take a while to download.

Slight change of plan. Being as my webhost is not cooperating with the single large file, I removed it. In place, I added another set of smaller pieces to DL. These are from WinRAR, for those familiar with that, and should reassemble using either WinRAR or 7-Zip. Just another option to the original set that Joe created. They can be found here…
http://grovesnet.org/Downloads/

For those interested in getting it in one chunk, Jim has kindly uploaded it to his site here (and it’s working much better than mine did)…
http://www.vvgmc.org/freda/Hp8920a%20Rf%20Communication%20Set-1.m4v

Mike, KD7MG

From: "emrnyc@..." <emrnyc@gmail.com>
>To: hp8924@yahoogroups.com
>Sent: Tuesday, December 3, 2013 10:16 PM
>Subject: [hp8924] HP 8920 Video
>
>
>
>
>
>
>Does anyone have a copy of the 8920 video. I believe it was a training
>or marketing video.
>Thanks
>Martin
>
>
>8 EMS - 37 PAPD - 23 NYPD - 343 FDNY
>Never forget our Brother & Sister Heroes 9/11/01.
>It was not how they died that made them heroes.....
>It was how they lived!
>
>Check out Emergency Medical Rescue of New York City's website http://www.emrnyc.com/
>
>Contact Us:
>Telephone 718 474 0680  Email: info@...
>
>
>
>
>

# 1739. Re: [hp8924] HP 8920 Video

Yahoo group: hp8924
Date: 2013-12-04 05:03:41 UTC
From: EMR * NYC
Topic: 1737  Message: 1739

Thank You
Martin

8 EMS - 37 PAPD - 23 NYPD - 343 FDNY
Never forget our Brother & Sister Heroes 9/11/01.
It was not how they died that made them heroes.....
It was how they lived!

*Check out Emergency Medical Rescue of New York City's website*
www.EMRNYC.com <http://www.emrnyc.com/>

*Contact Us:* *Telephone* 718 474
0680 *Email:* info@...

On Tue, Dec 3, 2013 at 11:54 PM, Ralph Mowery <ku4pt@yahoo.com> wrote:

>
>
> Look here for it. It is about 1.2 GB and will take a while to download.
>
> Slight change of plan. Being as my webhost is not cooperating with the
> single large file, I removed it. In place, I added another set of smaller
> pieces to DL. These are from WinRAR, for those familiar with that, and
> should reassemble using either WinRAR or 7-Zip. Just another option to the
> original set that Joe created. They can be found here…
> http://grovesnet.org/Downloads/
>
> For those interested in getting it in one chunk, Jim has kindly uploaded
> it to his site here (and it’s working much better than mine did)…
> http://www.vvgmc.org/freda/Hp8920a%20Rf%20Communication%20Set-1.m4v
>
> Mike, KD7MG
>
>
> *From:* "emrnyc@gmail.com" <emrnyc@...>
> *To:* hp8924@yahoogroups.com
> *Sent:* Tuesday, December 3, 2013 10:16 PM
> *Subject:* [hp8924] HP 8920 Video
>
>
>
> Does anyone have a copy of the 8920 video. I believe it was a training
> or marketing video.
> Thanks
> Martin
>

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> Never forget our Brother & Sister Heroes 9/11/01.
> It was not how they died that made them heroes.....
> It was how they lived!
>
> *Check out Emergency Medical Rescue of New York City's website*
> http://www.emrnyc.com/
>
> *Contact Us:*
> *Telephone* 718 474 0680 *Email:*
> info@...
>
>
>
>
>
>

# 1740. Re: [hp8924] HP 8920 Video

Yahoo group: hp8924
Date: 2013-12-04 16:34:08 UTC
From: Ralph Mowery
Topic: 1737  Message: 1740

If you can not download it , let me know and I will see if I can make you a copy in a week or so.

>_____
>From: "emrnyc@..." <emrnyc@...>
>To: hp8924@yahoogroups.com
>Sent: Tuesday, December 3, 2013 10:16 PM
>Subject: [hp8924] HP 8920 Video
>
>
>
>
>
>
>Does anyone have a copy of the 8920 video. I believe it was a training
>or marketing video.
>Thanks
>Martin
>
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>Never forget our Brother & Sister Heroes 9/11/01.
>It was not how they died that made them heroes.....
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>
>Check out Emergency Medical Rescue of New York City's website http://www.emrnyc.com/
>
>Contact Us:
>Telephone 718 474 0680  Email: info@...
>
>
>
>
>

# 1741. 8924C Thermal Printer ESC/POS Support?

Yahoo group: hp8924
Date: 2013-12-18 02:41:12 UTC
From: <zl1cvd@...>
Topic: 1741  Message: 1741

Just tried an Epson TM-88III thermal printer with 8924 & E8285A - prints perfect garbage on both regardless of the type of printer I select. Baud rate, parity, handshaking, etc are all correct. Does anyone know of a serial converter that will take the analyzer output and convert it into the standard ESC/POS command set? I know a PC will do this but am hoping for something a little more compact and perhaps PIC or ATMEL based. Any ideas would be gratefully received. Seasons greetings to all, Chris ZL1CVD.

# 1742. RE: 8924C Thermal Printer ESC/POS Support?

Yahoo group: hp8924
Date: 2013-12-19 03:37:56 UTC
From: <willard561@...>
Topic: 1741  Message: 1742

There's a number of different TM-88"s out there, and some of them have strange character sets. I don't have any documentation as to the different versions, just know they can be a pain to interface to.
Bill

# 1743. Re: [hp8924] RE: 8924C Thermal Printer ESC/POS Support?

Yahoo group: hp8924
Date: 2013-12-19 07:20:00 UTC
From: Robert Atkinson
Topic: 1741  Message: 1743

The POS printers are tailored to just that application. They are also not that cheap. I would have thougt a better choice would be to look for a small or portable printer that emulates one of the printeres supported by the test set. An older photo printer might be a good starting point but check for consumable cost and availablity. Compact laser printers can be picked up for next to nothing. Or look for a ticket printer that is compatible. I have one in the garage that came with ome of my radiation ation detectors. I'll dig it out and see what it is.

Robert G8RPI.

---
From: "willard561@..." <willard561@...>
To: hp8924@yahoogroups.com
Sent: Thursday, 19 December 2013, 3:37
Subject: [hp8924] RE: 8924C Thermal Printer ESC/POS Support?

There's a number of different TM-88"s out there, and some of them have strange character sets. I don't have any documentation as to the different versions, just know they can be a pain to interface to.
Bill

# 1744. Re: [hp8924] RE: 8924C Thermal Printer ESC/POS Support?

Yahoo group: hp8924
Date: 2013-12-19 10:31:21 UTC
From: <zl1cvd@...>
Topic: 1741  Message: 1744

I picked up this TM88 for next to nothing. Its much more compact than anything else I have seen. The only consumable is POS thermal paper which is way cheaper than ink/toner + paper. Just a matter of getting it to run. I really don't have the room for those older matrix, laser or inkjet printers...

# 1745. Re: [hp8924] RE: 8924C Thermal Printer ESC/POS Support?

Yahoo group: hp8924
Date: 2013-12-19 15:29:49 UTC
From: <willard561@...>
Topic: 1741  Message: 1745

Robert,
Tthat's very true about them being tailored to the end design, my day job at times includes trying to get a text capture working on security DVR's.over the telephone.
Bill

# 1746. PCI-GPIB interface card

Yahoo group: hp8924
Date: 2013-12-19 17:21:57 UTC
From: Doug
Topic: 1746  Message: 1746

I have a IEEE 488-2 card and cable that would plug into the back of my hp8924c. How could I use this to recover such things as the traces and setups?? What software would be required and is it available to hams? The board is made by National Instruments.

Any suggestions would be appreciated thanks.

Doug VE5DA

# 1747. Re: [hp8924] PCI-GPIB interface card

Yahoo group: hp8924
Date: 2013-12-19 17:41:51 UTC
From: Robert Atkinson
Topic: 1746  Message: 1747

You can use an HPIB card and software to simulate a printer or external disk drive. This allows you to print and save screens, save settings and load software such as  RF Tools. Free utilities are available, see
http://www.ke5fx.com/gpib/readme.htm
http://www.ke5fx.com/gpib/7470.htm
http://www.hp9845.net/9845/projects/hpdrive/
http://www.hp9845.net/9845/projects/hpdir/
RF tools is in the files section of the group.

You can also remote control the test set from your PC.

Hope this helps,
Robert G8RPI.

---
From: Doug <appld@...>
To: hp8924@yahoogroups.com
Sent: Thursday, 19 December 2013, 17:21
Subject: [hp8924] PCI-GPIB interface card

I have a IEEE 488-2 card and cable that would plug into the back of my hp8924c. How could I use this to recover such things as the traces and setups?? What software would be required and is it available to hams? The board is made by National Instruments.

Any suggestions would be appreciated thanks.

Doug VE5DA

# 1748. Re: [hp8924] PCI-GPIB interface card

Yahoo group: hp8924
Date: 2013-12-20 05:37:11 UTC
From: Tim
Topic: 1746  Message: 1748

On 20/12/2013 4:21 AM, Doug wrote:
>
> I have a IEEE 488-2 card and cable that would plug into the back of my
> hp8924c.
> How could I use this to recover such things as the traces and setups??
> What
> software would be required and is it available to hams? The board is
> made by
> National Instruments.
>
For capturing screens of my 8935 I use this...

http://www.printcapture.com/

Works with my HP54720A too.

Also use KE5FX's stuff too.

http://www.ke5fx.com/gpib/readme.htm

regards

Tim

--
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---
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http://www.avast.com

# 1749. RE: [hp8924] PCI-GPIB interface card

Yahoo group: hp8924
Date: 2013-12-20 07:10:23 UTC
From: Adam Farson
Topic: 1746  Message: 1749
Attachments: 2 described; binary payloads are missing from this source WARC

Hi Tim,

I also use PrintCapture, with the Prologix GPIB/USB adapter, to capture screen images off my 8935. I have tried using KE5FX's 7470 Emulator, but it does not support the PCL language generated by the 8935. It works fine with my 8563E SA.

Have you managed to get any of John's programs to work with your 8935?

73, Adam VA7OJ/AB4OJ

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Tim
Sent: 19-Dec-13 21:37
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] PCI-GPIB interface card

On 20/12/2013 4:21 AM, Doug wrote:

I have a IEEE 488-2 card and cable that would plug into the back of my hp8924c.
How could I use this to recover such things as the traces and setups?? What software would be required and is it available to hams? The board is made by National Instruments.

For capturing screens of my 8935 I use this...

http://www.printcapture.com/

Works with my HP54720A too.

Also use KE5FX's stuff too.

http://www.ke5fx.com/gpib/readme.htm

regards

Tim

--
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-----

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# 1750. Re: [hp8924] PCI-GPIB interface card

Yahoo group: hp8924
Date: 2013-12-20 07:17:30 UTC
From: Don E. Wisdom
Topic: 1746  Message: 1750

There also is pc capture software over the serial port on the back. You can print the output from your pc. The software is here http://www.amtronix.com/8920btsinfo.htm

Sent from my iPhone

On Dec 20, 2013, at 0:10, "Adam Farson" <farson@shaw.ca<mailto:farson@shaw.ca>> wrote:

Hi Tim,

I also use PrintCapture, with the Prologix GPIB/USB adapter, to capture screen images off my 8935. I have tried using KE5FX’s 7470 Emulator, but it does not support the PCL language generated by the 8935. It works fine with my 8563E SA.

Have you managed to get any of John’s programs to work with your 8935?

73, Adam VA7OJ/AB4OJ

From: hp8924@yahoogroups.com<mailto:hp8924@yahoogroups.com>
[mailto:hp8924@yahoogroups.com] On Behalf Of Tim
Sent: 19-Dec-13 21:37
To: hp8924@yahoogroups.com<mailto:hp8924@yahoogroups.com>
Subject: Re: [hp8924] PCI-GPIB interface card

On 20/12/2013 4:21 AM, Doug wrote:

I have a IEEE 488-2 card and cable that would plug into the back of my hp8924c.
How could I use this to recover such things as the traces and setups?? What
software would be required and is it available to hams? The board is made by
National Instruments.
For capturing screens of my 8935 I use this...

http://www.printcapture.com/<http://
%20www.printcapture.com/>

Works with my HP54720A too.

Also use KE5FX's stuff too.

http://www.ke5fx.com/gpib/readme.htm

regards

Tim

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---
<~WRD000.jpg><http://www.avast.com/>

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# 1751. Re: [hp8924] PCI-GPIB interface card

Yahoo group: hp8924
Date: 2013-12-20 07:28:23 UTC
From: Robert Atkinson
Topic: 1746  Message: 1751
Attachments: 2 described; binary payloads are missing from this source WARC

Hi,
Don't know about the 8935, but on the 892x you can select diffent printers including epson so that should solve the PCL issue.

Robert G8RPI.

---
From: Adam Farson <farson@...>
To: hp8924@yahoogroups.com
Sent: Friday, 20 December 2013, 7:10
Subject: RE: [hp8924] PCI-GPIB interface card

Hi Tim,

I also use PrintCapture, with the Prologix GPIB/USB adapter, to capture screen images off my 8935. I have tried using KE5FX’s 7470 Emulator, but it does not support the PCL language generated by the 8935. It works fine with my 8563E SA.

Have you managed to get any of John’s programs to work with your 8935?

73, Adam VA7OJ/AB4OJ

From:hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Tim
Sent: 19-Dec-13 21:37
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] PCI-GPIB interface card

On 20/12/2013 4:21 AM, Doug wrote:

>I have a IEEE 488-2 card and cable that would plug into the back of my hp8924c.
>How could I use this to recover such things as the traces and setups?? What
>software would be required and is it available to hams? The board is made by
>National Instruments.
For capturing screens of my 8935 I use this...

http://www.printcapture.com/

Works with my HP54720A too.

Also use KE5FX's stuff too.

http://www.ke5fx.com/gpib/readme.htm

regards

Tim

--
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# 1752. RE: [hp8924] PCI-GPIB interface card

Yahoo group: hp8924
Date: 2013-12-20 07:48:22 UTC
From: Adam Farson
Topic: 1746  Message: 1752
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Don,

BTS will not run on Windows 7. I have already tried that.

73, Adam VA7OJ/AB4OJ

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Don E. Wisdom
Sent: 19-Dec-13 23:18
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] PCI-GPIB interface card

There also is pc capture software over the serial port on the back. You can print the output from your pc. The software is here http://www.amtronix.com/8920btsinfo.htm

Sent from my iPhone

On Dec 20, 2013, at 0:10, "Adam Farson" <farson@...> wrote:

Hi Tim,

I also use PrintCapture, with the Prologix GPIB/USB adapter, to capture screen images off my 8935. I have tried using KE5FX’s 7470 Emulator, but it does not support the PCL language generated by the 8935. It works fine with my 8563E SA.

Have you managed to get any of John’s programs to work with your 8935?

73, Adam VA7OJ/AB4OJ

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Tim
Sent: 19-Dec-13 21:37
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] PCI-GPIB interface card

On 20/12/2013 4:21 AM, Doug wrote:

I have a IEEE 488-2 card and cable that would plug into the back of my hp8924c.
How could I use this to recover such things as the traces and setups?? What
software would be required and is it available to hams? The board is made by
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Works with my HP54720A too.

Also use KE5FX's stuff too.

http://www.ke5fx.com/gpib/readme.htm

regards

Tim

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<http://www.avast.com/> protection is active.

# 1753. RE: [hp8924] PCI-GPIB interface card [2 Attachments]

Yahoo group: hp8924
Date: 2013-12-20 07:48:22 UTC
From: Adam Farson
Topic: 1746  Message: 1753
Attachments: 2 described; binary payloads are missing from this source WARC

Hi Robert,

The 8935 also allows selection of Epson printers. I shall try it with John’s 7470 Emulator and see whether that works.

73, Adam VA7OJ/AB4OJ

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Robert Atkinson
Sent: 19-Dec-13 23:28
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] PCI-GPIB interface card [2 Attachments]

Hi,

Don't know about the 8935, but on the 892x you can select diffent printers including epson so that should solve the PCL issue.

Robert G8RPI.

From: Adam Farson <farson@...>
To: hp8924@yahoogroups.com
Sent: Friday, 20 December 2013, 7:10
Subject: RE: [hp8924] PCI-GPIB interface card

Hi Tim,

I also use PrintCapture, with the Prologix GPIB/USB adapter, to capture screen images off my 8935. I have tried using KE5FX’s 7470 Emulator, but it does not support the PCL language generated by the 8935. It works fine with my 8563E SA.

Have you managed to get any of John’s programs to work with your 8935?

73, Adam VA7OJ/AB4OJ

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Tim
Sent: 19-Dec-13 21:37
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] PCI-GPIB interface card

On 20/12/2013 4:21 AM, Doug wrote:

I have a IEEE 488-2 card and cable that would plug into the back of my hp8924c.
How could I use this to recover such things as the traces and setups?? What
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http://www.ke5fx.com/gpib/readme.htm

regards

Tim

--
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# 1754. Re: [hp8924] PCI-GPIB interface card

Yahoo group: hp8924
Date: 2013-12-20 07:52:53 UTC
From: Don E. Wisdom
Topic: 1746 Message: 1754

If you have windows 7 pro or business you can use windows xp mode
It may work if you run it as an administrator & set the compatability settings to windows XP

Sent from my iPhone

On Dec 20, 2013, at 0:48, "Adam Farson" <farson@shaw.ca<mailto:farson@shaw.ca>> wrote:

Hi Don,

BTS will not run on Windows 7. I have already tried that.

73, Adam VA7OJ/AB4OJ

From: hp8924@yahoogroups.com<mailto:hp8924@yahoogroups.com>
[mailto:hp8924@yahoogroups.com] On Behalf Of Don E. Wisdom
Sent: 19-Dec-13 23:18
To: hp8924@yahoogroups.com<mailto:hp8924@yahoogroups.com>
Subject: Re: [hp8924] PCI-GPIB interface card

There also is pc capture software over the serial port on the back. You can print the output from your pc. The software is here http://www.amtronix.com/8920btsinfo.htm

Sent from my iPhone

On Dec 20, 2013, at 0:10, "Adam Farson" <farson@shaw.ca<mailto:farson@shaw.ca>> wrote:
Hi Tim,

I also use PrintCapture, with the Prologix GPIB/USB adapter, to capture screen images off my 8935. I have tried using KE5FX’s 7470 Emulator, but it does not support the PCL language generated by the 8935. It works fine with my 8563E SA.

Have you managed to get any of John’s programs to work with your 8935?

73, Adam VA7OJ/AB4OJ

From: hp8924@yahoogroups.com<mailto:hp8924@yahoogroups.com>
[mailto:hp8924@yahoogroups.com] On Behalf Of Tim
Sent: 19-Dec-13 21:37
To: hp8924@yahoogroups.com<mailto:hp8924@yahoogroups.com>
Subject: Re: [hp8924] PCI-GPIB interface card

On 20/12/2013 4:21 AM, Doug wrote:

I have a IEEE 488-2 card and cable that would plug into the back of my hp8924c.
How could I use this to recover such things as the traces and setups?? What
software would be required and is it available to hams? The board is made by
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Works with my HP54720A too.

Also use KE5FX's stuff too.

http://www.ke5fx.com/gpib/readme.htm

regards

Tim

--

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# 1755. RE: [hp8924] PCI-GPIB interface card

Yahoo group: hp8924
Date: 2013-12-20 09:00:45 UTC
From: Adam Farson
Topic: 1746  Message: 1755
Attachments: 1 described; binary payloads are missing from this source WARC

No go – it doesn't like the 64-bit OS. No biggie; I did not wish to use the clunky serial port anyway and I already have PrintCapture.

73, Adam VA7OJ/AB4OJ

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Don E. Wisdom
Sent: 19-Dec-13 23:53
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] PCI-GPIB interface card

If you have windows 7 pro or business you can use windows xp mode

It may work if you run it as an administrator & set the compatability settings to windows XP

Sent from my iPhone

On Dec 20, 2013, at 0:48, "Adam Farson" <farson@...> wrote:

Hi Don,

BTS will not run on Windows 7. I have already tried that.

73, Adam VA7OJ/AB4OJ

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Don E. Wisdom
Sent: 19-Dec-13 23:18
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] PCI-GPIB interface card

There also is pc capture software over the serial port on the back. You can print the output from your pc. The software is here http://www.amtronix.com/8920btsinfo.htm

Sent from my iPhone

On Dec 20, 2013, at 0:10, "Adam Farson" <farson@...> wrote:

Hi Tim,

I also use PrintCapture, with the Prologix GPIB/USB adapter, to capture screen images off my 8935. I have tried using KE5FX's 7470 Emulator, but it does not support the PCL language generated by the 8935. It works fine with my 8563E SA.

Have you managed to get any of John's programs to work with your 8935?

73, Adam VA7OJ/AB4OJ

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Tim
Sent: 19-Dec-13 21:37
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] PCI-GPIB interface card

On 20/12/2013 4:21 AM, Doug wrote:

I have a IEEE 488-2 card and cable that would plug into the back of my hp8924c. How could I use this to recover such things as the traces and setups?? What software would be required and is it available to hams? The board is made by National Instruments.

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Works with my HP54720A too.

Also use KE5FX's stuff too.

http://www.ke5fx.com/gpib/readme.htm

regards

Tim

--
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---

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# 1756. Memory card files

Yahoo group: hp8924
Date: 2013-12-23 13:01:24 UTC
From: Silva
Topic: 1756  Message: 1756

Hi all,
Merry Xmas for all You and yours!!!
I has tried to download the files:
http://f1.grp.yahoofs.com/v2/EDC4UjBODZZYFjuU6kMdYrN9C_VBrbK1d3YYL6fSbL69gBgwfs3RghYFEuHGlY-NgXiuy5IBA-81r6Rn6hjaitpWnik9hfy3KsNqhwo6HGtaU49RvMJIIrePGmiSx-ZnjZnur4nRr8OUMErWhXYJ2MOrMAQeYJUoyHKZlVdiiPk/Memory%20card.z02
http://f1.grp.yahoofs.com/v2/EDC4UvpuwgBYFjuUEcvyuQ7sVJTuINBdQ-HmrPGCwT5_KTbWS1-8pF5BMBg9dGcLFKS3XTdzvw_PTqx3MM0fZ-IxtyXBSdyh1315auWJpnmhHseJ8iu-xEj3eDNOQLg2d4z7mINVwCcdH5iHj6y72B7yORR4YL9FSE6W_jCf1D0/Memory%20card.zip
http://f1.grp.yahoofs.com/v2/EDC4UihdKWJYFjuUwKUQzPqi4A8GhkxLHWMTk5xc6OT9MxoRrsHPhz2kWxQbYTHqf5Uh-DcvuVGGI3IRPkNO43eQIjD1zFy4MpCqkcd2W7juDwWLQMlMft-JMjr27TUE4GZKcqUa3Wslh4RepoQ7CD2XhNjTwsmN14DFh1-dW8Wm/Memory%20card1.z01

But I was noticed the files does not exist.
Can somebody help me please?

Thanks in advance and best regards,

Silva.

--

**********
Brazilian Ham Radio - ARRL Member
Callsign: PY8ELO
Name: Silva
Grid Locator: GI25ar
Address: POBOX 151 CEP 68180030
ITAITUBA - PA - BRAZIL
**********
AMAZON FOREST, THE WORLD'S LUNG!
**********

# 1757. Re: [hp8924] Memory card files

Yahoo group: hp8924
Date: 2013-12-23 14:09:03 UTC
From: Gerald Chafee
Topic: 1756  Message: 1757

What was this card file's purpose?

Certain files seem to be zipped up in different folders.

Jerry

On Mon, Dec 23, 2013 at 8:01 AM, Silva <py8elo@gmail.com> wrote:

>
>
> Hi all,
> Merry Xmas for all You and yours!!!
> I has tried to download the files:
>
> http://f1.grp.yahoofs.com/v2/EDC4UjBODZZYFjuU6kMdYrN9C_VBrbK1d3YYL6fSbL69gBgwfs3RghYFEuHGlY-NgXiuy5IBA-81r6Rn6hjaitpWnik9hfy3KsNqhwo6HGtaU49RvMJIIrePGmiSx-ZnjZnur4nRr8OUMErWhXYJ2MOrMAQeYJUoyHKZlVdiiPk/Memory%20card.z02
>
> http://f1.grp.yahoofs.com/v2/EDC4UvpuwgBYFjuUEcvyuQ7sVJTuINBdQ-HmrPGCwT5_KTbWS1-8pF5BMBg9dGcLFKS3XTdzvw_PTqx3MM0fZ-IxtyXBSdyh1315auWJpnmhHseJ8iu-xEj3eDNOQLg2d4z7mINVwCcdH5iHj6y72B7yORR4YL9FSE6W_jCf1D0/Memory%20card.zip
>
> http://f1.grp.yahoofs.com/v2/EDC4UihdKWJYFjuUwKUQzPqi4A8GhkxLHWMTk5xc6OT9MxoRrsHPhz2kWxQbYTHqf5Uh-DcvuVGGI3IRPkNO43eQIjD1zFy4MpCqkcd2W7juDwWLQMlMft-JMjr27TUE4GZKcqUa3Wslh4RepoQ7CD2XhNjTwsmN14DFh1-dW8Wm/Memory%20card1.z01
>
> But I was noticed the files does not exist.
> Can somebody help me please?
>
> Thanks in advance and best regards,
>
> Silva.
>
> --
>
> **********
> Brazilian Ham Radio - ARRL Member
> Callsign: PY8ELO
> Name: Silva
> Grid Locator: GI25ar
> Address: POBOX 151 CEP 68180030
> ITAITUBA - PA - BRAZIL
> **********
> AMAZON FOREST, THE WORLD'S LUNG!
> **********
>

>
>

# 1758. RE: Memory card files

Yahoo group: hp8924
Date: 2013-12-23 16:40:24 UTC
From: <danderson255@...>
Topic: 1756  Message: 1758

All files in that folder downloaded just fine for me. Must be something to do with your browser or internet provider maybe?

# 1759. Re: [hp8924] Memory card files

Yahoo group: hp8924
Date: 2013-12-23 16:42:03 UTC
From: <danderson255@...>
Topic: 1756  Message: 1759

Jerry, the program is used to read and write data to the PCMCIA linear flash and SRAM cards so that you can use them in the 892X :)

David

# 1760. Re: [hp8924] Memory card files

Yahoo group: hp8924
Date: 2013-12-23 22:45:16 UTC
From: Ralph Mowery
Topic: 1756  Message: 1760

Your links  don't work for me, but if I understand what you want.

You seem to want the memory card reader files.  They download fine for me.

Will your program take a file that is 5 meg big ?

>_____
>From: Silva <py8elo@...>
>To: hp8924@yahoogroups.com
>Sent: Monday, December 23, 2013 8:01 AM
>Subject: [hp8924] Memory card files
>
>
>
>
>
>
>Hi all,
>Merry Xmas for all You and yours!!!
>I has tried to download the files:
>http://f1.grp.yahoofs.com/v2/EDC4UjBODZZYFjuU6kMdYrN9C_VBrbK1d3YYL6fSbL69gBgwfs3RghYFEuHG
lY-NgXiuy5IBA-81r6Rn6hjaitpWnik9hfy3KsNqhwo6HGtaU49RvMJIIrePGmiSx-ZnjZnur4nRr8OUMErWhXYJ2M
OrMAQeYJUoyHKZlVdiiPk/Memory%20card.z02
>http://f1.grp.yahoofs.com/v2/EDC4UvpuwgBYFjuUEcvyuQ7sVJTuINBdQ-HmrPGCwT5_KTbWS1-8pF5BMBg9
dGcLFKS3XTdzvw_PTqx3MM0fZ-IxtyXBSdyh1315auWJpnmhHseJ8iu-xEj3eDNOQLg2d4z7mINVwCcdH5iHj6y72B
7yORR4YL9FSE6W_jCf1D0/Memory%20card.zip
>http://f1.grp.yahoofs.com/v2/EDC4UihdKWJYFjuUwKUQzPqi4A8GhkxLHWMTk5xc6OT9MxoRrsHPhz2kWxQb
YTHqf5Uh-DcvuVGGI3IRPkNO43eQIjD1zFy4MpCqkcd2W7juDwWLQMlMft-JMjr27TUE4GZKcqUa3Wslh4RepoQ7CD
2XhNjTwsmN14DFh1-dW8Wm/Memory%20card1.z01
>
>But I was noticed the files does not exist.
>Can somebody help me please?
>
>Thanks in advance and best regards,
>
>Silva.
>
>
>
>

# 1761. Re: [hp8924] Memory card files

Yahoo group: hp8924
Date: 2013-12-24 11:11:07 UTC
From: <py8elo@...>
Topic: 1756  Message: 1761

Hello Gerald, Ralph and all,
I already has downloaded the files.
This software is to read the PCMCIA memory card data.
I has installed it but I cant make it work. All the time I try to run it it I get a error message about memory and it try to read a file called test.bin in it instalation folder and it close for it self.
I already has added to command lines to the config file but I still geteing the message.

Any tip?

# 1762. Re: [hp8924] Memory card files

Yahoo group: hp8924
Date: 2013-12-24 14:34:30 UTC
From: Robert Atkinson
Topic: 1756  Message: 1762

Hi Silva,
What PC and operating system are you using? This is old software that was written for windows 98 or XP. Also what mermory cards do you have? Not all PC card slots are fully compatible.

Robert G8RPI.

---
From: "py8elo@..." <py8elo@...>
To: hp8924@yahoogroups.com
Sent: Tuesday, 24 December 2013, 11:11
Subject: Re: [hp8924] Memory card files

Hello Gerald, Ralph and all,
I already has downloaded the files.
This software is to read the PCMCIA memory card data.
I has installed it but I cant make it work. All the time I try to run it it I get a error message about memory and it try to read a file called test.bin in it instalation folder and it close for it self.
I already has added to command lines to the config file but I still geteing the message.

Any tip?

# 1763. FS: HP 8920B Service Monitor (Spectrum Analyzer+TG+Options)

Yahoo group: hp8924
Date: 2013-12-27 03:53:09 UTC
From: jsternmd@att.net
Topic: 1763  Message: 1763

HP / Agilent 8920B Communications Service Monitor 400 kHz to 1 GHz

Second owner, Unit is like almost new and fully functional. Low hours, bench only, no field use. Case and appearance: excellent++; Operation: works perfectly, passes all internal tests. Screen is clear and bright, no burn in, all controls work smoothly and respond as they should. Small desktop/portable form factor - 7.5"H x 13"W x 19"D at 37 lbs.

$3600 OBO plus shipping.

Standard HP 8920B has a specified frequency range of 30 MHz ☐ 1000MHz with the stock electronic attenuator /input module. This 8920B has the factory installed Mechanical attenuator/Input module specified by HP/Agilent as linear down to 400 kHz providing full continuous range of 400 kHz ☐ 1 GHz. These units also demodulate in real time, with Spectrum Analyzer active, to 1 MHz span, all frequencies.

Options included with this sale are:
☐ High Stability Time Base (001)
☐ Tone/Digital Signaling (004)
☐ Dual-mode Rear Panel Connectors (051)
☐ SPECTRUM ANALYZER WITH TRACKING GENERATOR AND ACP (102)
☐ Factory installed Mechanical Attenuator/Input Module option for 400 kHz- 1GHz range
☐ 60 Watt continuous RF input (100 Watt for 10 sec)
☐ HP-IB, Parallel centronics printer and serial ports
☐ DC Current output rear panel jacks
☐ AC or DC (11 V to 28 V)

I will include Measurement Innovation's RF Tools licensed to this 8920B serial number ☐ current version sells for $290 (Hams) and $950 (non-Hams). (see http://www.measurement.net.au/c/25306/1/rf-tools-software.html ). This is far, far better and easier to use than the Agilent RF Tools Opt 100 iBasic program plus it provides beautiful color, high contrast screen capture).

Features and Details (see http://www.k1jos.com/hp8920b.html )
☐ Boot ROM Version: B.06.01 (last)
☐ More than 20 complete instruments
☐ Accuracy of stand-alone instruments
o Synthesized AM/FM signal generator
o AM/FM modulation analyzer
o Duplex offset generator
o SSB demodulator
o RF power meter
o 60 watts continuous (100 W for 10 seconds per minute)
o RF frequency counter/frequency error meter
o Audio frequency counter
o AF power meter
o AC/DC voltmeter
o SINAD meter
o Distortion meter

o Two variable audio sources
o Digital Oscilloscope (50kHz)
o Weight : 37 lbs, 7.5"H x 13"W x 19"D

The HP Hewlett Packard Agilent 8920B communication test set is a full-function test set based upon the Agilent 8920A design but with increased measurement speed, accuracy, and larger user memory (928 kbytes standard). The 8920B uses PCMCIA memory cards for data storage and radio test programs. The 8920B has the functionality, speed, and accuracy for testing land mobile radios, cellular equipment, and other communications systems while improving throughput and quality in manufacturing.

High resolution pictures: http://www.mv-southerncross.com/ebay/hp8920b/template.htm
The Sale Includes:
☐ HP/Agilent 8920B with front cover and included options noted above
☐ Power Cord
☐ Manuals on CD (Assembly Level Repair, Operations Reference, GPIB Programming, and more!)
☐ Measurement Innovation's RF Tools (licensed to this 8920B serial number)

After sale, I will offer to buyer special pricing for Option 014 6kHz BPF (NIB) and complete CRT replacement Module (NIB)
I don't profit from shipping. I like to "over-pack" with hard-foam protective lining. Only actual costs will be passed to the buyer. I insist that all shipping is fully insured and insurance plus shipping is at the buyer's expense.

Thank you for understanding!
73 Jerry
K1JOS

# 1764. Re: [hp8924] Memory card files

Yahoo group: hp8924
Date: 2013-12-27 12:54:56 UTC
From: <py8elo@...>
Topic: 1756  Message: 1764

Hello Robert,
I was using an old notebook Toshiba running Win XP SP3.
But now it does not run.
After I start the MCE I get the error message about low memory and it close for it self.
I already has tried all tips on the help file without success!

Can You help me please?

# 1765. Possibly damaged my 8924c by using it as a current path to ground

Yahoo group: hp8924
Date: 2013-12-31 14:28:51 UTC
From: <doug@...>
Topic: 1765  Message: 1765

Hello. I have been testing a kenwood hf transceiver with my 8924c. I have discovered that if I disconnect my radio from the tester, then the radio shuts down because it loses its 13.8 vdc rreturn path to my astron power supply. This is all because 1) the astron internally bonds its -13.8 terminal to its chassis, and 2) the power connector on its 13.8 power cable is flakey at the radio end. So all the dc currrent, up to 30A, was passing through the shield of the coax and through the 8924c, to ac ground. whew.
I have repaired and modified the astron and power cables, and ordered new coax patch cables, but my 8924c now has a large error in its rf power meter, especially below 20 meters. Like about 50% low. And I'm not sure if it's related to my power supply fumble. And I don't know where to look in the 8924. Any suggestions? (besides taking a writing class).
thanks
Doug k7kw

# 1766. Re: [hp8924] Possibly damaged my 8924c by using it as a current path to ground

Yahoo group: hp8924
Date: 2013-12-31 15:18:54 UTC
From: Gerald Chafee
Topic: 1765  Message: 1766

Doug,

Have you looked at the manual for the 8920 called the Component Level Information Packet - P/N 08920-90107 (download at http://www.home.agilent.com/upload/cmc_upload/All/8920_Component_Level_Information_Packet.pdf)?
It is a free download from Agilent and has all the schematics for the 8920 which is basically the same unit without some cell site software? Also the Assembly Level Repair guide for the 8924 will give you some high level schematics and module flowcharts. The modules between these two instruments(8920 and 8924) are the same except for a couple of special modules in the 8924 (P/N for this manual is 08924-90061). This can be downloaded from )http://cp.literature.agilent.com/litweb/pdf/08924-90061.pdf ).

I am sure others may have more info about your specific issue, but this is a good start.

Jerry

On Tue, Dec 31, 2013 at 9:28 AM, <doug@...> wrote:

>
>
> Hello. I have been testing a kenwood hf transceiver with my 8924c. I have
> discovered that if I disconnect my radio from the tester, then the radio
> shuts down because it loses its 13.8 vdc rreturn path to my astron power
> supply. This is all because 1) the astron internally bonds its -13.8
> terminal to its chassis, and 2) the power connector on its 13.8 power cable
> is flakey at the radio end. So all the dc currrent, up to 30A, was passing
> through the shield of the coax and through the 8924c, to ac ground. whew.
>
> I have repaired and modified the astron and power cables, and ordered new
> coax patch cables, but my 8924c now has a large error in its rf power
> meter, especially below 20 meters. Like about 50% low. And I'm not sure if
> it's related to my power supply fumble. And I don't know where to look in
> the 8924. Any suggestions? (besides taking a writing class).
> thanks
> Doug k7kw
>
>
>

# 1767. Re: [hp8924] Possibly damaged my 8924c by using it as a current path to ground

Yahoo group: hp8924
Date: 2013-12-31 16:37:06 UTC
From: Doug Henry
Topic: 1765  Message: 1767

Thanks Jerry,
This is great advice. I am getting the manuals right now.
Doug

On Tue, Dec 31, 2013 at 7:18 AM, Gerald Chafee <gchafee@...> wrote:

>
>
> Doug,
>
> Have you looked at the manual for the 8920 called the Component Level
> Information Packet - P/N 08920-90107 (download at
> http://www.home.agilent.com/upload/cmc_upload/All/8920_Component_Level_Information_Packe
t.pdf)?
> It is a free download from Agilent and has all the schematics for the 8920
> which is basically the same unit without some cell site software? Also the
> Assembly Level Repair guide for the 8924 will give you some high level
> schematics and module flowcharts. The modules between these two
> instruments(8920 and 8924) are the same except for a couple of special
> modules in the 8924 (P/N for this manual is 08924-90061). This can be
> downloaded from )
> http://cp.literature.agilent.com/litweb/pdf/08924-90061.pdf).
>
> I am sure others may have more info about your specific issue, but this is
> a good start.
>
> Jerry
>
>
> On Tue, Dec 31, 2013 at 9:28 AM, <doug@...> wrote:
>
>>
>>
>> Hello. I have been testing a kenwood hf transceiver with my 8924c. I have
>> discovered that if I disconnect my radio from the tester, then the radio
>> shuts down because it loses its 13.8 vdc rreturn path to my astron power
>> supply. This is all because 1) the astron internally bonds its -13.8
>> terminal to its chassis, and 2) the power connector on its 13.8 power cable
>> is flakey at the radio end. So all the dc currrent, up to 30A, was passing
>> through the shield of the coax and through the 8924c, to ac ground. whew.
>>
>> I have repaired and modified the astron and power cables, and ordered new
>> coax patch cables, but my 8924c now has a large error in its rf power
>> meter, especially below 20 meters. Like about 50% low. And I'm not sure if

>> it's related to my power supply fumble. And I don't know where to look in
>> the 8924. Any suggestions? (besides taking a writing class).
>> thanks
>> Doug k7kw
>>
>>
>
>

# 1768. Re: [hp8924] Possibly damaged my 8924c by using it as a current path to ground

Yahoo group: hp8924
Date: 2013-12-31 16:56:54 UTC
From: Robert Atkinson
Topic: 1765  Message: 1768

Hi Doug,
Don't panic. I don't think you have damaged the 8924C. The power meter is only specified to work down to 30MHz, soI'd expect to see errors at lower frequencies. It's only specified to +/-5% at best. The low frequency roll off is due to the electronic attenuator used in the 8924C. The DC blocking capacitors (and possibly PIN diodes specs) limit the low end.
The DC current will have gone through the shell of the 8924C's input connector straight to the chassis. The only thing you may have damaged is the electrical safety earth in the power cord or the short cable between the mains filter and the chassis. Not a problem if you still have continuity from the power cord to the chassis.

Robert G8RPI.

---
From: "doug@..." <doug@...>
To: hp8924@yahoogroups.com
Sent: Tuesday, 31 December 2013, 14:28
Subject: [hp8924] Possibly damaged my 8924c by using it as a current path to ground

Hello. I have been testing a kenwood hf transceiver with my 8924c. I have discovered that if I disconnect my radio from the tester, then the radio shuts down because it loses its 13.8 vdc rreturn path to my astron power supply. This is all because 1) the astron internally bonds its -13.8 terminal to its chassis, and 2) the power connector on its 13.8 power cable is flakey at the radio end. So all the dc currrent, up to 30A, was passing through the shield of the coax and through the 8924c, to ac ground. whew.
I have repaired and modified the astron and power cables, and ordered new coax patch cables, but my 8924c now has a large error in its rf power meter, especially below 20 meters. Like about 50% low. And I'm not sure if it's related to my power supply fumble. And I don't know where to look in the 8924. Any suggestions? (besides taking a writing class).
thanks
Doug k7kw

# 1769. RE: Possibly damaged my 8924c by using it as a current path to ground

Yahoo group: hp8924
Date: 2013-12-31 18:24:57 UTC
From: <doug@...>
Topic: 1765  Message: 1769

So my 8924c is labeled that it goes down to 400kHz so I'd expect better accuracy than I'm getting. Maybe something else failed. It's also rated for 100 watts, and I have never seen the high temp warning activate.
Doug

# 1770. Re: [hp8924] RE: Possibly damaged my 8924c by using it as a current path to ground

Yahoo group: hp8924
Date: 2013-12-31 18:57:25 UTC
From: Frederick Bray
Topic: 1765  Message: 1770

On 12/31/2013 10:24 AM, doug@... wrote:
>
>
> So my 8924c is labeled that it goes down to 400kHz so I'd expect
> better accuracy than I'm getting. Maybe something else failed. It's
> also rated for 100 watts, and I have never seen the high temp warning
> activate.
>
>
Could you clarify whether the high temperature warning is related the RF power input function? It isn't clear whether you are saying that whenever you feed RF power into it it produces the warning or whether you are getting a warning telling you that the whole unit is getting too hot. I would assume that you have tried powering the 8924c down, allowed it to cool completely, and then re-booted it.

KE6CD

# 1771. Re: [hp8924] RE: Possibly damaged my 8924c by using it as a current path to ground

Yahoo group: hp8924
Date: 2013-12-31 19:25:14 UTC
From: Robert Atkinson
Topic: 1765  Message: 1771

OK,
so it says you have the mechanical attenuator option. Did you ever check the LF accuracy before this incident? I still can't see how passing dc current through the screen would cause damage, it's solidly grounded in the unit, at the front panel, attenuator and the A5 input assembly.
If you have not checked the accuracy before it's bossible the the calibration data is wrong or possibly the mechanical attenuator A5 module was swapped for an electronic one.

Robert G8RPI.

---
From: "doug@..." <doug@...>
To: hp8924@yahoogroups.com
Sent: Tuesday, 31 December 2013, 18:24
Subject: [hp8924] RE: Possibly damaged my 8924c by using it as a current path to ground

So my 8924c is labeled that it goes down to 400kHz so I'd expect better accuracy than I'm getting. Maybe something else failed. It's also rated for 100 watts, and I have never seen the high temp warning activate.
Doug

# 1772. RE: [hp8924] Possibly damaged my 8924c by using it as a current path to ground

Yahoo group: hp8924
Date: 2013-12-31 20:17:56 UTC
From: Garret Scott
Topic: 1765  Message: 1772
Attachments: 2 described; binary payloads are missing from this source WARC

I’m not 8924 expert, though I use them, however I would be hard pressed to think that what you described would do anything detrimental to the instrument. That sort of thing happens all the time in labs and service shops. I’ve done it myself many times, and most instruments are very well protected from such things. Unless you drew hundreds of Amps, it really shouldn’t do anything to it, and even then, it would probably just burn up a cable or blow a fuse externally.

So just thinking through your problem:

1. Your HP8924 extends down to 400KHz. I have one that does too, and it reads power fine down to less than 400KHz. So I think yours should too.

2. Yours has given you NO warnings and NO alerts, correct?

3. Does your HP8924 read power correct at other frequencies?

4. What modulation modes and test signals are you testing from the Transmitter?

5. You believe the instrument is reading incorrectly why? Do you have a calibrated wattmeter verify it with?

6. There is a power offset factor which you can program into the 8924. By chance has that been done and forgotten about?

Garret

W8BUG

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of doug@...
Sent: Tuesday, December 31, 2013 9:29 AM
To: hp8924@yahoogroups.com
Subject: [hp8924] Possibly damaged my 8924c by using it as a current path to ground

Hello. I have been testing a kenwood hf transceiver with my 8924c. I have discovered that if I disconnect my radio from the tester, then the radio shuts down because it loses its 13.8 vdc rreturn path to my astron power supply. This is all because 1) the astron internally bonds its -13.8 terminal to its chassis, and 2) the power connector on its 13.8 power cable is flakey at the radio end. So all the dc currrent, up to 30A, was passing through the shield of the coax and through the 8924c, to ac ground. whew.

I have repaired and modified the astron and power cables, and ordered new coax patch cables, but my 8924c now has a large error in its rf power meter, especially below 20 meters. Like about 50% low. And I'm not sure if it's related to my power supply fumble. And I don't know where to look in the 8924. Any suggestions? (besides taking a writing class).

thanks

Doug k7kw

---

No virus found in this message.
Checked by AVG - www.avg.com
Version: 2014.0.4259 / Virus Database: 3658/6942 - Release Date: 12/22/13
Internal Virus Database is out of date.

# 1773. Re: [hp8924] Possibly damaged my 8924c by using it as a current path to ground

Yahoo group: hp8924
Date: 2013-12-31 20:24:49 UTC
From: Gerald Chafee
Topic: 1765  Message: 1773

Not to sound like I am not following the others train of thought, and looking at your original post, by any chance none of the "patch cables" you used melted and had the center conductor touch the shield did they?

I would suspect you would have a lot bigger issues if that were the case.

Jerry

On Tue, Dec 31, 2013 at 9:28 AM, <doug@...> wrote:

>
>
> Hello. I have been testing a kenwood hf transceiver with my 8924c. I have
> discovered that if I disconnect my radio from the tester, then the radio
> shuts down because it loses its 13.8 vdc rreturn path to my astron power
> supply. This is all because 1) the astron internally bonds its -13.8
> terminal to its chassis, and 2) the power connector on its 13.8 power cable
> is flakey at the radio end. So all the dc currrent, up to 30A, was passing
> through the shield of the coax and through the 8924c, to ac ground. whew.
>
> I have repaired and modified the astron and power cables, and ordered new
> coax patch cables, but my 8924c now has a large error in its rf power
> meter, especially below 20 meters. Like about 50% low. And I'm not sure if
> it's related to my power supply fumble. And I don't know where to look in
> the 8924. Any suggestions? (besides taking a writing class).
> thanks
> Doug k7kw
>
>
>

# 1774. Re: [hp8924] Possibly damaged my 8924c by using it as a current path to ground

Yahoo group: hp8924
Date: 2014-01-01 04:12:24 UTC
From: Doug Henry
Topic: 1765  Message: 1774

Good note.
Everything was running ok when I disconnected one coax cable and watched
the transceiver shut down, so I don't think I had any near-direct shorts.
But that reminds me, that I have left this same configuration powered on
overnight a couple times. I can visualize an ugly series of events.
I just checked my third astron ps and it had dc negative bonded to case
ground too, and I removed that connection. It's worth thinking about.
Doug

On Tue, Dec 31, 2013 at 12:24 PM, Gerald Chafee <gchafee@...> wrote:

>
>
> Not to sound like I am not following the others train of thought, and
> looking at your original post, by any chance none of the "patch cables" you
> used melted and had the center conductor touch the shield did they?
>
> I would suspect you would have a lot bigger issues if that were the case.
>
> Jerry
>
>
> On Tue, Dec 31, 2013 at 9:28 AM, <doug@...> wrote:
>
>>
>>
>> Hello. I have been testing a kenwood hf transceiver with my 8924c. I have
>> discovered that if I disconnect my radio from the tester, then the radio
>> shuts down because it loses its 13.8 vdc rreturn path to my astron power
>> supply. This is all because 1) the astron internally bonds its -13.8
>> terminal to its chassis, and 2) the power connector on its 13.8 power cable
>> is flakey at the radio end. So all the dc currrent, up to 30A, was passing
>> through the shield of the coax and through the 8924c, to ac ground. whew.
>>
>> I have repaired and modified the astron and power cables, and ordered new
>> coax patch cables, but my 8924c now has a large error in its rf power
>> meter, especially below 20 meters. Like about 50% low. And I'm not sure if
>> it's related to my power supply fumble. And I don't know where to look in
>> the 8924. Any suggestions? (besides taking a writing class).
>> thanks
>> Doug k7kw
>>
>>
>

>

# 1775. Re: [hp8924] Possibly damaged my 8924c by using it as a current path to ground

Yahoo group: hp8924
Date: 2014-01-01 11:23:03 UTC
From: Robert Atkinson
Topic: 1765  Message: 1775

Which end of the coax did you disconnect with power on? If it was a PL259 at the transceiver end, it's possible that the screen disconnected before the center conductor. If the tranceivers antenna port is DC coupled then you may have passed DC into the attenuator. Note to self: Always switch off before disconnecting.
Does the spectrum analyser give correct levels and are they the same for both the RF IN/OUT and ANT ports on the 8924C? The RF IN/OUT port goes directly to the power attenuator which should be able to handle 13.8V (<4W into 50R) without damage but there may have been transients and the power sensor is fed from a splitter just after the attenuator so may be susceptible, but it all seems to be DC blocked. The high power option has more attenuation so damage still seems unlikely. Sorry to repeat myself, but are you sure it was OK at low frequencies before?

Robert G8RPI.

---
From: Doug Henry <doug@...>
To: hp8924@yahoogroups.com
Sent: Wednesday, 1 January 2014, 4:12
Subject: Re: [hp8924] Possibly damaged my 8924c by using it as a current path to ground

Good note.
Everything was running ok when I disconnected one coax cable and watched the transceiver shut down, so I don't think I had any near-direct shorts. But that reminds me, that I have left this same configuration powered on overnight a couple times. I can visualize an ugly series of events.
I just checked my third astron ps and it had dc negative bonded to case ground too, and I removed that connection. It's worth thinking about.
Doug

On Tue, Dec 31, 2013 at 12:24 PM, Gerald Chafee <gchafee@...> wrote:

>
>Not to sound like I am not following the others train of thought, and looking at your original post, by any chance none of the "patch cables" you used melted and had the center conductor touch the shield did they?
>
>I would suspect you would have a lot bigger issues if that were the case.
>
>Jerry
>
>
>
>On Tue, Dec 31, 2013 at 9:28 AM, <doug@...> wrote:
>
>

>>
>>Hello. I have been testing a kenwood hf transceiver with my 8924c. I have discovered that if I disconnect my radio from the tester, then the radio shuts down because it loses its 13.8 vdc rreturn path to my astron power supply. This is all because 1) the astron internally bonds its -13.8 terminal to its chassis, and 2) the power connector on its 13.8 power cable is flakey at the radio end. So all the dc currrent, up to 30A, was passing through the shield of the coax and through the 8924c, to ac ground. whew.
>>I have repaired and modified the astron and power cables, and ordered new coax patch cables, but my 8924c now has a large error in its rf power meter, especially below 20 meters. Like about 50% low. And I'm not sure if it's related to my power supply fumble. And I don't know where to look in the 8924. Any suggestions? (besides taking a writing class).
>>thanks
>>Doug k7kw
>

# 1776. Re: [hp8924] Possibly damaged my 8924c by using it as a current path to ground

Yahoo group: hp8924
Date: 2014-01-01 14:26:44 UTC
From: Doug Henry
Topic: 1765  Message: 1776

Very bright way to check the effect on receive sensitivity - I will test
that and compare it with the ant port. Also, I am NOT certain that low freq
power readings were correct ever. I've been hacking at this one project for
a long time, bu I have also had the same astron power supply for a long
time and may have busted whatever I busted several months ago.
thanks a lot
Doug

On Wed, Jan 1, 2014 at 3:23 AM, Robert Atkinson <robert8rpi@....uk>wrote:

>
>
> Which end of the coax did you disconnect with power on? If it was a PL259
> at the transceiver end, it's possible that the screen disconnected before
> the center conductor. If the tranceivers antenna port is DC coupled then
> you may have passed DC into the attenuator. Note to self: Always switch off
> before disconnecting.
> Does the spectrum analyser give correct levels and are they the same for
> both the RF IN/OUT and ANT ports on the 8924C? The RF IN/OUT port goes
> directly to the power attenuator which should be able to handle 13.8V (<4W
> into 50R) without damage but there may have been transients and the power
> sensor is fed from a splitter just after the attenuator so may be
> susceptible, but it all seems to be DC blocked. The high power option has
> more attenuation so damage still seems unlikely. Sorry to repeat myself,
> but are you sure it was OK at low frequencies before?
>
> Robert G8RPI.
>
>
> ----------
> *From:* Doug Henry <doug@...>
> *To:* hp8924@yahoogroups.com
> *Sent:* Wednesday, 1 January 2014, 4:12
> *Subject:* Re: [hp8924] Possibly damaged my 8924c by using it as a
> current path to ground
>
>
> Good note.
> Everything was running ok when I disconnected one coax cable and watched
> the transceiver shut down, so I don't think I had any near-direct shorts.
> But that reminds me, that I have left this same configuration powered on
> overnight a couple times. I can visualize an ugly series of events.
> I just checked my third astron ps and it had dc negative bonded to case
> ground too, and I removed that connection. It's worth thinking about.

> Doug
>
>
> On Tue, Dec 31, 2013 at 12:24 PM, Gerald Chafee <gchafee@...> wrote:
>
>
> Not to sound like I am not following the others train of thought, and
> looking at your original post, by any chance none of the "patch cables" you
> used melted and had the center conductor touch the shield did they?
>
> I would suspect you would have a lot bigger issues if that were the case.
>
> Jerry
>
>
> On Tue, Dec 31, 2013 at 9:28 AM, <doug@...> wrote:
>
>
> Hello. I have been testing a kenwood hf transceiver with my 8924c. I
> have discovered that if I disconnect my radio from the tester, then the
> radio shuts down because it loses its 13.8 vdc rreturn path to my astron
> power supply. This is all because 1) the astron internally bonds its -13.8
> terminal to its chassis, and 2) the power connector on its 13.8 power cable
> is flakey at the radio end. So all the dc currrent, up to 30A, was passing
> through the shield of the coax and through the 8924c, to ac ground. whew.
> I have repaired and modified the astron and power cables, and ordered
> new coax patch cables, but my 8924c now has a large error in its rf power
> meter, especially below 20 meters. Like about 50% low. And I'm not sure if
> it's related to my power supply fumble. And I don't know where to look in
> the 8924. Any suggestions? (besides taking a writing class).
> thanks
> Doug k7kw
>
>
>
>
>
>
>

# 1777. RE: [hp8924] Possibly damaged my 8924c by using it as a current path to ground

Yahoo group: hp8924
Date: 2014-01-01 19:45:59 UTC
From: Garret Scott
Topic: 1765  Message: 1777

Doug,

When you say "everything was running ok", was it reading what you expected then? and now it doesn't? Or are you saying the transceiver no longer works right in some other way?

I can't help but ask why do you think the HP8924c is reading wrong? What is your calibrated reference? How much is the HP reading and how much is your other reference? Is the reference another watt meter? Another analyzer? Are you switching cables or adapters when you connect to your good reference meter?

Maybe I missed it, but I'm not seeing any description of why you think it is not reading correctly. If you just aren't reading what you think you should, with no reference to compare against, then who knows, it could be transceiver? the cable? adapters? the instrument? Maybe you bumped the power setting on the transceiver, or switched modulation modes? If I were a betting man, I'd put money on it being the "device under test", the transceiver, or cables, and not the HP.

The "mistake" you describe should not cause any damage to the instrument. It happens all the time in the real world. Probably every day of the week in every shop in the world that does real radio repair work. DC power supplies in repair shops are often grounded to the system or bench ground.

If it were me, I would focus on positively identifying that the instrument is in fact not reading correctly. After 4 decades of troubleshooting radio equipment, I can say that the most prolific amateur troubleshooter's mistake is not trusting your equipment. HP equipment is amongst the best there is, even when old. The toughness and quality of any instrument that HP ever made is probably magnitudes above the very best that Kenwood ever produced. I'm not saying the HP can't be broken or out of calibration, but the odds are against it. Fixing things that aren't broke is the second most prolific troubleshooter's mistake.

Garret

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Doug Henry
Sent: Tuesday, December 31, 2013 11:12 PM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Possibly damaged my 8924c by using it as a current path to ground

Good note.

Everything was running ok when I disconnected one coax cable and watched the transceiver shut down, so I don't think I had any near-direct shorts. But that reminds me, that I have left this same configuration powered on overnight a couple times. I can visualize an ugly series of events.

I just checked my third astron ps and it had dc negative bonded to case ground too, and I removed that connection. It's worth thinking about.

Doug

On Tue, Dec 31, 2013 at 12:24 PM, Gerald Chafee <gchafee@...> wrote:

Not to sound like I am not following the others train of thought, and looking at your original post, by any chance none of the "patch cables" you used melted and had the center conductor touch the shield did they?

I would suspect you would have a lot bigger issues if that were the case.

Jerry

On Tue, Dec 31, 2013 at 9:28 AM, <doug@...> wrote:

Hello. I have been testing a kenwood hf transceiver with my 8924c. I have discovered that if I disconnect my radio from the tester, then the radio shuts down because it loses its 13.8 vdc rreturn path to my astron power supply. This is all because 1) the astron internally bonds its -13.8 terminal to its chassis, and 2) the power connector on its 13.8 power cable is flakey at the radio end. So all the dc currrent, up to 30A, was passing through the shield of the coax and through the 8924c, to ac ground. whew.

I have repaired and modified the astron and power cables, and ordered new coax patch cables, but my 8924c now has a large error in its rf power meter, especially below 20 meters. Like about 50% low. And I'm not sure if it's related to my power supply fumble. And I don't know where to look in the 8924. Any suggestions? (besides taking a writing class).

thanks

Doug k7kw

---

No virus found in this message.
Checked by AVG - www.avg.com
Version: 2014.0.4259 / Virus Database: 3658/6942 - Release Date: 12/22/13
Internal Virus Database is out of date.

# 1778. Re: [hp8924] Possibly damaged my 8924c by using it as a current path to ground

Yahoo group: hp8924
Date: 2014-01-02 01:49:43 UTC
From: Tim
Topic: 1765  Message: 1778

On 2/01/2014 1:26 AM, Doug Henry wrote:
> Very bright way to check the effect on receive sensitivity - I will
> test that and compare it with the ant port. Also, I am NOT certain
> that low freq power readings were correct ever. I've been hacking at
> this one project for a long time, bu I have also had the same astron
> power supply for a long time and may have busted whatever I busted
> several months ago.
> thanks a lot
> Doug
>
>
Hi Doug,

There is a distinct possibility that your unit does not read correctly below 30Mhz.

I have an 8935, calibrated by Rick from Amtronix, and current cal expires on 8/17/2014

My 8935 doesn't ready correctly below 30 Mhz and is easily 30db down at 400Khz. I asked Rick about this last year and here is his response...

> /On 5/04/2013 1:16 AM, Amtronix Instruments, Inc. wrote: //
> //Dear Tim, //
> // I believe all HP 8935 units have power meter issues below 30 (or
> 50?) MHz. Are you measuring power below 30 MHz? I have been informed
> by Agilent of this issue several years ago. They figured it wouldn't
> be used below 30 MHz so did not want to spend the time / engineering
> to have the power meter in cal below that freq. Rick /

Even thought your unit is not an 8935, I wouldn't be surprised if it behaved the same.

Mind you the 8935's spectrum analyzer is closer to the correct value.

i.e. At 7Mhz, using the output of my FT817 as a sig source, the 8935's TX power meter in the RF Analyzer section reads 3.25W. The 8935's Spectrum Analyzer reads 36.37 dBm which is ~4.23W, the RF Tools power meter reads 3.27W. The Bird 4410 reads 4.8W

At 1.8Mhz its worse... the 8935's TX power meter in the RF Analyzer section reads 1W, the SA says 35.95dBm aka ~ 3.92W and the 4410 says 4.2W

The lower you go, the worse it gets.

I often compare the 8935 readings against my Bird 4410 with appropriate slugs. If I want to be precise I have an HP8566B SA that I use with calibrated, high power, attenuators to get closer to reality if I suspect things are not right.

You can apply offsets in "Inst Config" for your RF In/Out and save that, with other settings,in the macro keys, so that you can switch bands and have the unit set up correctly for that band rather than having to visit all the menus to apply offsets, center frequencies etc.

When measuring anything, its always handy to have 3 ways to measure what you expect. If those instruments are reasonable then whatever 2 systems measure the same, that is probably close to your value.

regards

Tim

--
VK2XTT :: VK2XAX :: QF56if23 :: BMARC :: WIA

---
This email is free from viruses and malware because avast! Antivirus protection is active.
http://www.avast.com

# 1779. Software for HP83236B

Yahoo group: hp8924
Date: 2014-01-04 00:53:28 UTC
From: <donald_s_58103@...>
Topic: 1779  Message: 1779

Hi all,

I have been looking for a PCMCIA card with utility software for the HP83236B PCS interface. The part number is 83236-61002. If any of you have one that you no longer need, I would like to buy it from you. Please note that part number 83236-61001 is the same software, but on an Epson card. This will NOT work with my setup. It HAS to be a PCMCIA card. If the actual card is not available, if someone could upload the card contents to the file section, I could transfer it to a PCMCIA card that I have.

Thanks!

Don

# 1780. Re: [hp8924] Memory card files

Yahoo group: hp8924
Date: 2014-01-07 18:34:46 UTC
From: <danderson255@...>
Topic: 1756  Message: 1780

You need to follow the directions in the readme file included with the program. Should cure your problem :)

# 1781. Non-recoverable firmware error... Help!

Yahoo group: hp8924
Date: 2014-01-15 02:32:53 UTC
From: Garret
Topic: 1781  Message: 1781

I started my 8924 today, and have this error message. Anyone know what it means, and how to fix it?

"Non-recoverable firmware error. Please record the two lines of text below and contact Hewlett Packard.

.....

'$Header: CDMACallcntrl.m,v 21.1.1.3 96/05/29 17:11:24 hmgr Exp at line number 3389

To continue operation, turn power off and back on"

I have had it happen before, and turning it off and on it recovers ok. But not today. And no, I haven't called HP yet!

Thanks,
Garret

# 1782. RE: [hp8924] Non-recoverable firmware error... Help!

Yahoo group: hp8924
Date: 2014-01-15 07:17:16 UTC
From: Adam Farson
Topic: 1781  Message: 1782

Hi Garret,

Suggest you call Rick at Amtronix. Rick is very kind and helpful, and knows these instruments inside out.

73, Adam VA7OJ/AB4OJ

-----Original Message-----
From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com] On Behalf Of Garret
Sent: 14-Jan-14 18:33
To: hp8924@yahoogroups.com
Subject: [hp8924] Non-recoverable firmware error... Help!

I started my 8924 today, and have this error message. Anyone know what it means, and how to fix it?

"Non-recoverable firmware error. Please record the two lines of text below and contact Hewlett Packard.

.....

'$Header: CDMACallcntrl.m,v 21.1.1.3 96/05/29 17:11:24 hmgr Exp at line number 3389

To continue operation, turn power off and back on"

I have had it happen before, and turning it off and on it recovers ok. But not today. And no, I haven't called HP yet!

Thanks,
Garret

---

Yahoo Groups Links

# 1783. RE: Non-recoverable firmware error... Help!

Yahoo group: hp8924
Date: 2014-01-15 07:18:12 UTC
From: <robert8rpi@...>
Topic: 1781  Message: 1783

Hi Garret,
First thing to try is removing the pcbs with memory (EPROM) on them, re-seat the chips, plug the boards back in and see what that does. It's generally not nessessary to remove the chips completly, just ease tham up in the socket at each enad and push them back down again. use reasonble anti-static precautions.

Robert G8RPI..

# 1784. RE: Non-recoverable firmware error... Help!

Yahoo group: hp8924
Date: 2014-01-15 10:29:05 UTC
From: <zl1cvd@...>
Topic: 1781  Message: 1784

I have seen a few units give this and similar firmware type errors with a failing power supply.

I would not suggest you try reseating any chips at this stage. The firmware that is reporting this error is located in 4x FLASH EEPROMs located on the A16 Host Controller card. They are SMD devices soldered to the board and non removable in any case.

The power on self test has failed whilst trying to initialise the CDMA Call Controller part. 1st I'd be checking that all the red Out Of Lock (OOL) LED's on Sig Gen Synth, Receiver Synth, CDMA Reference & LO/IF. If any remain illuminated when the error message is displayed, there is a very good chance a power supply rail has failed - quite probably the +40V rail. If all OOL LEDs are out, then I'd still be looking to confirm all PSU voltages are correct. If you can get it to boot up properly, go to tests, internal ROM and run MSDIAGS3. The Self-Test option checks all internal voltages. If voltages are OK, look at removing, cleaning and reseating all CDMA related cards as a dirty/dusty unit can pop up with problems like this - especially if its been dry and then operated in a humid environment such as a propane gas heated shack/workshop.

Cheers & regards from New Zealand where No8 fence wire is the fix to most things because HP just aint here!

# 1785. Win64 screen capture for 892x, 8935 & E8285

Yahoo group: hp8924
Date: 2014-01-22 11:35:12 UTC
From: <zl1cvd@...>
Topic: 1785  Message: 1785

I have just finished writing a small program to capture screen shot of the HP 8920, 8921, 8922, 8924, 8935 or Agilent E8285 Communication Test Sets. It reads the serial HP PCL non-compressed raster graphics data into an image which you can save as JPG, BMP, TIFF or PNG. It only works with Win64. Download CaPCL.zip from https://sites.google.com/site/zl1cvd/datasheets

73s de Chris ZL1CVD

# 1786. Win32 screen capture now available.

Yahoo group: hp8924
Date: 2014-01-22 23:34:57 UTC
From: <zl1cvd@...>
Topic: 1786  Message: 1786

By popular request, a Windows 32-bit version of my screen capture software is now available from https://sites.google.com/site/zl1cvd/datasheets

73s de Chris ZL1CVD.

# 1787. RE: [hp8924] Possibly damaged my 8924c by using it as a current path to ground

Yahoo group: hp8924
Date: 2014-01-30 16:22:01 UTC
From: <doug@...>
Topic: 1765  Message: 1787

Hi Garret. Thanks for the help.
1. Your HP8924 extends down to 400KHz. I have one that does too, and it reads power fine down to less than 400KHz. So I think yours should too.
Great - that's what I wan t.
2. Yours has given you NO warnings and NO alerts, correct?
I have seen no warnings or alerts, temperature or otherwise.
3. Does your HP8924 read power correct at other frequencies?
Yes, at 14MHz and above
4. What modulation modes and test signals are you testing from the Transmitter?
Only steady carrier, no modulation tested.
5. You believe the instrument is reading incorrectly why? Do you have a calibrated wattmeter verify it with?
My other wqttmeter isn't calibrated that I know of, bu I have two that seem to be correct in other uses, and both agree that the 8924 is way (like >50%) low.

6. There is a power offset factor which you can program into the 8924. By chance has that been done and forgotten about?
Well, there's something here. I modified this 8925 from the 6W input to 100W input by replacing the load resistor. Right after that, I was satisfied that it was reading correctly on signals whose power I knew. I may have not tried VLF signals, though. Perhaps I merely need to re-calibrate. "Merely" is still daunting to me. Is there simple doc on how to recalibrate? I have some flash cards and a (sort of) standard I can use.

Doug

# 1788. need help getting calibration files on pcmcia card

Yahoo group: hp8924
Date: 2014-02-01 11:08:32 UTC
From: <doug@...>
Topic: 1788  Message: 1788

Hello good group. I need to correct my 8924c for its way-too-low readings at the bottom of its range. My unit should be good down to 400kHz but drops off before that. It worked OK before I replaced the attenuator with a 100-watt version.
I'm getting no bueno when I try to copy the needed files to a pcmcia card. I have tried several cards but my windows 7 laptop fights back every time. If someone could send me a written card that I could use, I think I'd be in business. i just need to have the files from the "attenuator calibration" folder on it.
I'll be happy to buy or rent your card, or whatever you want.
thanks
Doug k7kw

# 1789. Re: [hp8924] need help getting calibration files on pcmcia card

Yahoo group: hp8924
Date: 2014-02-01 14:37:09 UTC
From: Robert Atkinson
Topic: 1788  Message: 1789

Hi Doug,
What software are you using to write to the card? Windows (and even DOS) uses formatted disks. The test set uses binary files so you need to use a program such as MCE to write to the disk. see the updated readme file.

HTH,
Robert G8RPI.

---
From: "doug@k7kw.com" <doug@...>
To: hp8924@yahoogroups.com
Sent: Saturday, 1 February 2014, 11:08
Subject: [hp8924] need help getting calibration files on pcmcia card

Hello good group. I need to correct my 8924c for its way-too-low readings at the bottom of its range. My unit should be good down to 400kHz but drops off before that. It worked OK before I replaced the attenuator with a 100-watt version.
I'm getting no bueno when I try to copy the needed files to a pcmcia card. I have tried several cards but my windows 7 laptop fights back every time. If someone could send me a written card that I could use, I think I'd be in business. i just need to have the files from the "attenuator calibration" folder on it.
I'll be happy to buy or rent your card, or whatever you want.
thanks
Doug k7kw

# 1790. Re: need help getting calibration files on pcmcia card

Yahoo group: hp8924
Date: 2014-02-02 19:15:26 UTC
From: Joe Leikhim
Topic: 1788  Message: 1790

Robert;
Could you share some kind of primer on what types of cards work in the test set, including memory limitations. I would also be interested in whether a DOS formatted card with programs will be read by the test set. I have two ways to program. MCE in a laptop with PCMCIA and DOS 5.0 in an HP Palmtop. The latter I think works, though some cards are unidentifiable in either program. Trying to research this is confusing. Some experienced guidance would be helpful.

For example, are any FLASH RAM cards useable for either programming or calibration? What cards other than battery backed ones are useable?

--
Joe Leikhim

Leikhim and Associates

Communications Consultants

Oviedo, Florida

JLeikhim@...

407-982-0446

WWW.LEIKHIM.COM

# 1791. Re: [hp8924] Re: need help getting calibration files on pcmcia card

Yahoo group: hp8924
Date: 2014-02-03 14:57:32 UTC
From: Gerald Chafee
Topic: 1788  Message: 1791

Hi All,

Not wanting to complicate things much more, but I would like to ask if along with what Doug asked, Is there a way to pull cal data ( and other data) back from the test set to the card. For example, if you have a module that you wish to swap and the cal rom is not located on the card? Or pull the firmware information ( in their assembly language of course)?

Thanks,

Jerry

On Sun, Feb 2, 2014 at 2:15 PM, Joe Leikhim <rhyolite@...> wrote:

>
>
> Robert;
> Could you share some kind of primer on what types of cards work in the
> test set, including memory limitations. I would also be interested in
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> an HP Palmtop. The latter I think works, though some cards are
> unidentifiable in either program. Trying to research this is confusing.
> Some experienced guidance would be helpful.
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>
> --
> Joe Leikhim
>
> Leikhim and Associates
>
> Communications Consultants
>
> Oviedo, Florida
>
> JLeikhim@...
>
> 407-982-0446
>
> WWW.LEIKHIM.COM
>
>
>

# 1792. Re: [hp8924] Re: need help getting calibration files on pcmcia card

Yahoo group: hp8924
Date: 2014-02-03 19:27:58 UTC
From: Robert Atkinson
Topic: 1788  Message: 1792

Hi All,
Sorry for not replying sooner, my mother in law passed away last friday. I'll get some information together for you later this week. The cal routine does write data to the card so you have use a SRAM card.

Regards,
Robert G8RPI.

---
From: Gerald Chafee <gchafee@...>
To: hp8924@yahoogroups.com
Sent: Monday, 3 February 2014, 14:57
Subject: Re: [hp8924] Re: need help getting calibration files on pcmcia card

Hi All,

Not wanting to complicate things much more, but I would like to ask if along with what Doug asked,  Is there a way to pull cal data ( and other data) back from the test set to the card. For example, if you have a module that you wish to swap and the cal rom is not located on the card? Or pull the firmware information ( in their assembly language of course)?

Thanks,

Jerry

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>an HP Palmtop. The latter I think works, though some cards are
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>Joe Leikhim
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>

# 1793. RE: need help getting calibration files on pcmcia card

Yahoo group: hp8924
Date: 2014-02-04 17:21:54 UTC
From: <rhyolite@...>
Topic: 1788  Message: 1793

Sorry to hear of your loss.

Take your time. Looking forward to your advice.

Thank you

# 1794. I don't hear audio on the 8920a training video

Yahoo group: hp8924
Date: 2014-02-05 00:47:12 UTC
From: <doug@...>
Topic: 1794  Message: 1794

I'm playing the video training that's in the files section and all I get is video, no audio. I'm playing it with windows media player on windows 7 x64. Has anyone else had success with this file? I have downloaded it twice.
thanks
Doug k7kw

# 1795. Re: [hp8924] I don't hear audio on the 8920a training video

Yahoo group: hp8924
Date: 2014-02-05 04:56:46 UTC
From: Frederick Bray
Topic: 1794  Message: 1795

I had the same problem. I tried other players and I think that Apple Quicktime worked.

On 2/4/2014 4:47 PM, doug@... wrote:
>
>
> I'm playing the video training that's in the files section and all I
> get is video, no audio. I'm playing it with windows media player on
> windows 7 x64. Has anyone else had success with this file? I have
> downloaded it twice.
> thanks
> Doug k7kw
>
>
>

# 1796. Buttons

Yahoo group: hp8924
Date: 2014-02-05 13:45:52 UTC
From: Al Wolfe
Topic: 1796  Message: 1796

On my 8924c many of the front panel pushbuttons must be pushed very hard to register. Is this common? More importantly, is this fixable?

Al, k9si

# 1797. Re: [hp8924] Buttons

Yahoo group: hp8924
Date: 2014-02-05 15:40:22 UTC
From: Brad Thompson
Topic: 1796  Message: 1797

On 2/5/2014 8:45 AM, Al Wolfe wrote:
>
> On my 8924c many of the front panel pushbuttons must be pushed very
> hard to
> register. Is this common? More importantly, is this fixable?
>
Hello, Al and the group--

If the switches are the same as described here...

http://www.edn.com/electronics-blogs/test-voices/4378128/5060-9436

...They're indeed repairable. I used a stainless-steel feeler gauge
(available as part of a multigauge tool in most automobile-supply
stores) of 0.002-inch thickness to provide replacement springs.
You can use good-quality scissors to cut the material to size.
If you have access to a source of 0.002-inch-thick "shim stock"
that'll work fine.

It's interesting to note that rarely (or if ever) do auction-site
sellers of older HP test equipment mention the condition of the
instruments' front-panel switches...<g>.

73--

Brad AA1IP

---
This email is free from viruses and malware because avast! Antivirus protection is active.
http://www.avast.com

# 1798. Re: I don't hear audio on the 8920a training video

Yahoo group: hp8924
Date: 2014-02-05 15:50:24 UTC
From: Rhyolite@leikhim.com
Topic: 1794  Message: 1798

I have it working on an iPod touch as well as my WinXP platform. Your codecs probably need updating.

Sent from my iPod

# 1799. RE: I don't hear audio on the 8920a training video

Yahoo group: hp8924
Date: 2014-02-05 15:57:42 UTC
From: <doug@...>
Topic: 1794  Message: 1799

Thanks for the information.
The first thing I tried, worked: apple quicktime
It's free and on the web.
I'm good.
Doug

# 1800. Re: [hp8924] Buttons

Yahoo group: hp8924
Date: 2014-02-05 20:33:45 UTC
From: Robert Atkinson
Topic: 1796  Message: 1800

Hi,
The buttons on the 892x series are not the type described in the EDN article. They are moulded rubber with conductive pads pressing on a PCB. They are fixable. First thing to try is a gentle clean. Use warm water with mild detergent (dish soap) on the rubber part and mild solvent such as isopropyl alcohol on the PCB. If this does not work you can buy kits to refinish the conductive parts. See
http://uk.farnell.com/circuitworks/cw2605/rubber-keypad-repair-kit/dp/128790 or
http://www.amazon.co.uk/CHEMTRONICS-61923-RUBBER-KEYPAD-REPAIR/dp/6095017688

HTH,
Robert G8RPI.

---
From: Brad Thompson <brad.thompson@...>
To: hp8924@yahoogroups.com; hp_agilent_equipment@yahoogroups.com
Sent: Wednesday, 5 February 2014, 15:40
Subject: Re: [hp8924] Buttons

On 2/5/2014 8:45 AM, Al Wolfe wrote:

>On my 8924c many of the front panel pushbuttons must be pushed very hard to
>register. Is this common? More importantly, is this
fixable?
>
>
Hello, Al and the group--

If the switches are the same as described here...

http://www.edn.com/electronics-blogs/test-voices/4378128/5060-9436

...They're indeed repairable. I used a stainless-steel feeler gauge
(available as part of a multigauge tool in most automobile-supply
stores) of 0.002-inch thickness to provide replacement springs.
You can use good-quality scissors to cut the material to size.
If you have access to a source of 0.002-inch-thick "shim stock"
that'll work fine.

It's interesting to note that rarely (or if ever) do auction-site
sellers of older HP test equipment mention the condition of the
instruments' front-panel switches...<g>.

73--

Brad  AA1IP

---

This email is free from viruses and malware because avast! Antivirus protection is active.

# 1801. RE: I don't hear audio on the 8920a training video

Yahoo group: hp8924
Date: 2014-02-06 14:20:48 UTC
From: <doug@...>
Topic: 1794  Message: 1801

Oh, by the way...
The training video is EXCELLENT. It taught me how to use the pesky tracking generator and spectrum analyzer combination. The video almost seems to be focused on the amateur and doesn't drift off into cellular at all.
73
Doug k7kw

# 1802. RE: 8924c message

Yahoo group: hp8924
Date: 2014-02-17 22:17:35 UTC
From: <rjunek@...>
Topic: 1376  Message: 1802

Hello

Where is this jumper I did what you did replace the power supply and now have the same error.
Where is this jumper located?

Richard - K9IVL

# 1803. HP-8924C Problem

Yahoo group: hp8924
Date: 2014-02-17 22:32:42 UTC
From: <rjunek@...>
Topic: 1803  Message: 1803

Hello all,

I have a issue with the 8924C we just replaced the power supply which was Updated.
I am now getting a error at start up.
REF Unlock & check Ref Connection & Freq.
What could be wrong and how do I fix it?
Any ideas out there?

Richard

# 1804. RE: Received Mine

Yahoo group: hp8924
Date: 2014-02-17 22:41:30 UTC
From: <rjunek@...>
Topic: 4  Message: 1804

Where is this jumper that you are talking about I have that same error.

Richard - K9IVL

# 1805. RE: Received Mine

Yahoo group: hp8924
Date: 2014-02-18 07:27:00 UTC
From: <robert8rpi@...>
Topic: 4  Message: 1805

Hi Richard,
You are probably missing the coaxial cable (BNC to BNC) link from "10 MHz OVEN OUT" to "REF INPUT" on the rear panel. These are the second and third sockets from your left as you look at the rear panel. If this does not fix it check for a 10MHz signal on the oven out connector.
B.T.W posting the same question three times in half an hour will not improve your chances of a response. This is a small group and we are not all monitoring 24 seven. I'm several time zones away so was in bed when you posted.

HTH,
Robert G8RPI.

# 1806. RE: Received Mine

Yahoo group: hp8924
Date: 2014-02-18 13:21:24 UTC
From: <rjunek@...>
Topic: 4  Message: 1806

The jumper is there never been removed when I replaced the power supply did not need to.

Richard - K9IVL

# 1807. RE: Received Mine

Yahoo group: hp8924
Date: 2014-02-18 15:41:19 UTC
From: <jyelmgren@...>
Topic: 4  Message: 1807

Sounds like your power supply is defective. Have not looked at the manual but there should be a separate output for the OCXO and that may be missing.
You should have the green LED on the back which is for the separate "standby" supply and I believe you need that before the main supply will come up from the on-off switch so that 15VDC ( IIRC ) output may be low or missing at the output connector to the OCXO.

One thought would be to use an external 10Mhz reference and see if that resolves the issue and than remove the million screws to look at the outputs

# 1808. RE: HP-8924C Problem

Yahoo group: hp8924
Date: 2014-02-18 15:45:42 UTC
From: <jyelmgren@...>
Topic: 1803  Message: 1808

replied in the other thread.

AS in the other thread try using an external 10Mhz, verify you have the green LED on the back ( you should if it turns on ) and then look at the manual or the label on the power supply ( old ones had one ) for the 15VDC standby voltage pin and verify you have it.

# 1809. RE: HP-8924C Problem

Yahoo group: hp8924
Date: 2014-02-18 15:51:31 UTC
From: <jyelmgren@...>
Topic: 1803  Message: 1809

Other quick thought would be to verify the 10Mhz reference output ..sounds like it may be missing. Remove jumper and use a scope /counter to verify.
Should be a pretty healthy 10Mhz signal....around 1V p-p at least . Check the 8924C service manaul to be sure though.

# 1810. RE: Received Mine

Yahoo group: hp8924
Date: 2014-02-18 17:01:57 UTC
From: <rjunek@...>
Topic: 4  Message: 1810

The green lite is on it starts up and runs but you have had a error. I just started it up and now it is running ok the error is no longer there.
That is a strange one I am going to leave it run all day here and see what happens.
I want to get it fixed so I can fell better when I sell it.

I sold it two weeks ago and the fellow got it and plugged it and said that it don't work it don't start up.
Well the unit was shipped to the East Coast and Fedex stopped running si it sat in the trailer somewhere for 3 days. When he got it he wrote me that just got it 10 min ago and plugged it and did not work but the green lite was on. You need to let some thing that sit to get to room temp.
So he made a claim with Ebay and had to refund his money.
So then I ordered a remanf updated power supply with 2 year warr.
So that is the whole 2 cents.
Well after an hour it is still running just fine.

Richard - K9KIVL

# 1811. RE: Received Mine

Yahoo group: hp8924
Date: 2014-02-18 17:05:39 UTC
From: <rjunek@...>
Topic: 4  Message: 1811

ADDED: Maybe it was the jumper on the back I removed it and looked at it to see if there was a problem with it.

# 1812. RE: Received Mine

Yahoo group: hp8924
Date: 2014-02-18 18:14:20 UTC
From: <jyelmgren@...>
Topic: 4  Message: 1812

The 8924C uses a Ovenized reference oscillator. The normal warm up is 15 min. AFTER plugging into the power The OCXO is powered from the 15VDC stnadby supply so it is always on if the unit is plugged in
If the unit was stored in a cold environment would have waited at least an hour before even plugging in to let the components get close to room temperature.
Given the weather we had had recently a 24 hour wait would not be unreasonable.to allow the components to warm up before plugging in and then waiting the 15 min to turn on from the front switch.

The HP test gear is designed to handle a broad temperature range but that's when it was brand new.
Taking the HW from a potentially sub-zero storage to immediate power on would not be recommended given the age of the hardware ...just begging for hardware to break given the thermal stress never mind the self test failing for awhile.

I guest the short version is that I am not sure anything may have been broken ...just not fully warmed up and stabilized enough for the equipment to work fully and pass self test.

# 1813. Re: [hp8924] RE: Received Mine

Yahoo group: hp8924
Date: 2014-02-18 18:32:53 UTC
From: Frederick Bray
Topic: 4  Message: 1813

Here are a couple observations based my experiences.

I know that this is a pain, given the number of screws involved, but you might want to carefully pull and re-seat the boards if the problem comes back. Generally, the are pretty well held into the unit but removing and re-seating boards can help clean the contacts. There is a warm up time before the reference oscillator stabilizes, but I haven't noticed that impacting the ability to turn on the unit and go through the self test with a good power supply.

Be aware that the start-up problem is usually caused by one or two capacitors in the power supply that seem to eventually fail in most units. There are postings and pictures here on the group about replacing them. It's pretty straight forward. I replaced my power supply and then repaired the original one. Now, I have a spare. Note that one of these capacitors is on a small vertical PC board. I found it easiest to remove the little board, replace the capacitor and reinstall it.

It has been a while, but I seem to recall that with the old supply, the unit sometimes behaved strangely if I didn't leave it plugged in between uses. If I left it connected to AC constantly, it always worked fine. Now, with the new supply (and with the one I repaired) it doesn't have the problem.

# 1814. Re: [hp8924] RE: Received Mine

Yahoo group: hp8924
Date: 2014-02-18 19:37:14 UTC
From: <rjunek@...>
Topic: 4  Message: 1814

Thanks for the great info. Maybe you got the same replacement supply like I got last week.
I would of keep the old supply if I was going to keep the unit but plan to sell it.
The supply has been updated and the failing parts are upgraded.
So I am going to leave it run for today and see if all stays running.
IN a few days I plan on selling it again and hope there will be no issues.
The unit is good shape no real damage the tube has a minor burn in on it but dose not affect the reading of the screen at all.

Richard - K9IVL

# 1815. Re: [hp8924] RE: Received Mine

Yahoo group: hp8924
Date: 2014-02-18 19:52:59 UTC
From: Frederick Bray
Topic: 4  Message: 1815

You might consider including the old supply with your listing, noting that it can be easily rebuilt and kept as a spare. Or you could sell it separately for parts. I would think that there are folks out there who might want to rebuild your supply, keep it as a spare, and then swap it in when their existing supply fails. I was thinking of selling my now rebuilt supply for a cheap price just to get rid of it but I have decided that it's probably worth hanging onto as a spare. It doesn't take up a lot of space.

Fred
KE6CD

On 2/18/2014 11:37 AM, rjunek@... wrote:
>
>
> Thanks for the great info.
> Maybe you got the same replacement supply like I got last week.
> I would of keep the old supply if I was going to keep the unit but
> plan to sell it.
> The supply has been updated and the failing parts are upgraded.
> So I am going to leave it run for today and see if all stays running.
> IN a few days I plan on selling it again and hope there will be no issues.
> The unit is good shape no real damage the tube has a minor burn in on
> it but dose not affect the reading of the screen at all.
>
> Richard - K9IVL
>
>
>

# 1816. Re: [hp8924] RE: Received Mine

Yahoo group: hp8924
Date: 2014-02-18 20:54:17 UTC
From: <rjunek@...>
Topic: 4  Message: 1816

I owe the PS to the company I purchased the new rebuilt supply from I am going to hang on it for few days and see what happens here. He told me if the new supply did not correct the problem he would refund my money not a bad deal.

Richard - K9IVL

# 1817. Re: HP-8924C Problem

Yahoo group: hp8924
Date: 2014-02-19 09:45:43 UTC
From: Bill Black
Topic: 1803  Message: 1817

Hi Richard and the group

I get the same Ref unlock message with beeping when my 8924C starts up. Depending on the ambient temperature it can take 5 to 30 seconds to clear the error, while the error is present I can hear frequency instability if a radio is connected.

The power supply is original. It became difficult to start last year especially when the ambient temperature was low (aiming a fan heater at it for half an hour got it going), but eventually would not start at all. The green LED stayed on but may have been dimmer than it should. The capacitor replacement procedure in the files section fixed the problem.

Daunted by all the screws to remove to get inside I've opted to live with the unlock at start up but assume that the oscillator is not getting full time power to the other even though the green LED on the back is lit.

Hope this helps.

Bill

# 1818. Re: HP-8924C Problem

Yahoo group: hp8924
Date: 2014-02-19 17:45:17 UTC
From: <rjunek@...>
Topic: 1803  Message: 1818

Hi Bill

I ran mine with that errors like 4 hours and the same thing the error.
I turned it off and removed the BNC jumper on the back and looked it and put it back on.
Same thing left it run for a few min. and the error went away.
I ran it all day yesterday about 12 hours and never missed a beat.
Re-started it today same thing works fine.
So I don't no I am waiting for the guy that I purchased this supply from comes back from vacation to see what he has to say about this matter.
So I don't no if the UPDATED PS REMANF has a problem.
I don't like these intermittin problems.

Richard

# 1820. RE: TKR-850 Power Supply

Yahoo group: hp8924
Date: 2014-02-24 22:05:50 UTC
From: <rjunek@...>
Topic: 1819  Message: 1820

Sorry this was the wrong LIST just remove it.

# 1821. Backup Battery

Yahoo group: hp8924
Date: 2014-02-26 17:59:50 UTC
From: <wb4yjt@...>
Topic: 1821  Message: 1821

I recently turned my 8924C on after not using it for a few months, and saw that it had forgotten all the setups I had put into memory. So, I pulled out the A8 Memory board, and, sure enough, the battery was dead. I had replaced the battery a while back, so I wondered what was wrong.

I temporarily installed a two-cell holder with a couple of 2500 mAH NiCd cells to get it going again. Then I set up a test to measure the current out of the battery.

I discovered that the memory keep-alive current is about 0.75 mA (unit powered off), and there is a small "charging" current of about 20 uA with the unit powered on.

Since the Lithium back-up battery is a 1200 mAH unit, at 0.76 mA, it should only last about 65 days with the unit powered off.

Apparently the designers assumed that the unit would be powered on most of the time.

So, I'm thinking of leaving the NiCd cells in place, and modifying the circuit so that there is a reasonable charge current when the unit is powered on. That way, when I turn it on once a month or so, it would re-charge the NiCd keep-alive battery.

I considered trying to tap into the 15 Volt "standby" voltage, but this would probably be much more difficult (why didn't the designers set it up so the "standby" voltage kept the memory alive???)

So - Any thoughts or comments? I would be happy to hear some other ideas before I go charging off into the wilderness.

John K.

# 1822. RE: Backup Battery

Yahoo group: hp8924
Date: 2014-02-27 09:57:22 UTC
From: <zl1cvd@...>
Topic: 1821  Message: 1822

Just uploaded 8920 memory board circuit in the files area (08920-61865 A8 Memory.pdf) which may be of some help. Its not the same but it is similar enough that I suspect they have used same backup circuit. Hope it helps.
Chris
ZL1CVD

# 1823. Re: [hp8924] Backup Battery

Yahoo group: hp8924
Date: 2014-02-27 13:01:31 UTC
From: Robert Atkinson
Topic: 1821  Message: 1823

Hi John,
750uA is far to much current for the battery backup. I suspect that you have a leaky capacitor, isolation diode or PCB contamination (dust, battery leakage). Less likely but still possible is a faulty SRAM chip. The Litium cell should last years even with the unit off. There should be no "charge" current into the battery so this could indicate a leaky diode.

HTH,
Robert G8RPI.

---
From: "wb4yjt@...m" <wb4yjt@...>
To: hp8924@yahoogroups.com
Sent: Wednesday, 26 February 2014, 17:59
Subject: [hp8924] Backup Battery

I recently turned my 8924C on after not using it for a few months, and saw that it had forgotten all the setups I had put into memory.  So, I pulled out the A8 Memory board, and, sure enough, the battery was dead.  I had replaced the battery a while back, so I wondered what was wrong.

I temporarily installed a two-cell holder with a couple of 2500 mAH NiCd cells to get it going again.  Then I set up a test to measure the current out of the battery.

I discovered that the memory keep-alive current is about 0.75 mA (unit powered off), and there is a small "charging" current of about 20 uA with the unit powered on.

Since the Lithium back-up battery is a 1200 mAH unit, at 0.76 mA, it should only last about 65 days with the unit powered off.

Apparently the designers assumed that the unit would be powered on most of the time.

So, I'm thinking of leaving the NiCd cells in place, and modifying the circuit so that there is a reasonable charge current when the unit is powered on.  That way, when I turn it on once a month or so, it would re-charge the NiCd keep-alive battery.

I considered trying to tap into the 15 Volt "standby" voltage, but this would probably be much more difficult (why didn't the designers set it up so the "standby" voltage kept the memory alive???)

So - Any thoughts or comments?  I would be happy to hear some other ideas before I go charging off into the wilderness.

John K.

# 1824. Re: Backup Battery

Yahoo group: hp8924
Date: 2014-02-27 14:44:20 UTC
From: Rhyolite@leikhim.com
Topic: 1821  Message: 1824

What is the type of cell that the factory installed? Was it a BR? Was there any electrolyte spillage?

Sent from my iPod

# 1825. Re: Backup Battery

Yahoo group: hp8924
Date: 2014-02-28 15:43:48 UTC
From: Rhyolite@leikhim.com
Topic: 1821  Message: 1825

My guess is the diode is bad and the battery leaked out on the PCB.

Sent from my iPod

# 1826. 8924C power readings off

Yahoo group: hp8924
Date: 2014-03-03 01:15:27 UTC
From: Matthew Willis
Topic: 1826  Message: 1826

I have an HP 8924C with the 100W input attenuator.

Recently I noticed a discrepancy between power readings it gave me and a Daiwa cross-needle wattmeter. After more investigation, I realized the HP was no longer showing power above around 13 watts, regardless of input.

Before I ship the thing off to someplace to get fixed, is there anything I can check myself? Does this behaviour perhaps sound like a unit that has "forgotten" that it has the high power attenuator installed?

Thanks
-Matt
N2PYI

# 1827. RE: Backup Battery

Yahoo group: hp8924
Date: 2014-03-08 00:43:22 UTC
From: <wb4yjt@...>
Topic: 1821  Message: 1827

I FIXED IT!

I presumed that the backup circuit was the same as the 8920, so went looking for the related parts on the 8924 memory board.

I removed the associated tantalum caps - no change. So, I decided it was either the pass transistor or the Zener diode.

Amazingly, Mouser has both components in stock, so I ordered ten of each.

They came today, I replaced both the transistor and the diode, and now I have 2.3 uA drain from the backup battery.

Now, it will probably outlast me!

# 1828. RE: Backup Battery

Yahoo group: hp8924
Date: 2014-03-08 05:26:04 UTC
From: <wb6dgn_tom@...>
Topic: 1821  Message: 1828

"Now, it will probably outlast me!"

One can only hope!
Tom WB6DGN

# 1829. OT OT OT RE: Backup Battery

Yahoo group: hp8924
Date: 2014-03-08 05:40:18 UTC
From: <wb6dgn_tom@...>
Topic: 1821  Message: 1829

To explain the "seeming sarcasm" of my post.
In another post, in another forum. Mr. Kernkamp made some unpleasnat and totally unnecessary, insulting comments directed to me personally. While this may have been quite a while ago, it did cause me to remove myself from that forum and ham radio forums in general.
This is my first encounter with Mr. Kernkamp since that rather unpleasant experience. My comment is made without apology and if, unfortunately, I have offended anyone on THIS forum, EXCEPT MR. KERNKAMP, I sincerely apologize. I believe, however, that my comment is justified and, as stated above, make NO apologies for it.
Tom Allinson WB6DGN

# 1830. Re: [hp8924] OT OT OT RE: Backup Battery

Yahoo group: hp8924
Date: 2014-03-08 06:01:23 UTC
From: John Kernkamp
Topic: 1821  Message: 1830

Wow, Tom, that must have been some long time ago. I'm sorry to say that I have no recollection of the incident to which you refer, but, apparently it affected you quite strongly, for you to br so angry for so long. So, while I have no understanding of what I may be apologizing for, let me offer one anyway. I hope it helps to ease your pain.

Sincerely,
John K.

On Fri, Mar 7, 2014 at 9:40 PM, <wb6dgn_tom@...> wrote:

>
>
> To explain the "seeming sarcasm" of my post.
> In another post, in another forum. Mr. Kernkamp made some unpleasnat and
> totally unnecessary, insulting comments directed to me personally. While
> this may have been quite a while ago, it did cause me to remove myself from
> that forum and ham radio forums in general.
> This is my first encounter with Mr. Kernkamp since that rather unpleasant
> experience. My comment is made without apology and if, unfortunately, I
> have offended anyone on THIS forum, EXCEPT MR. KERNKAMP, I sincerely
> apologize. I believe, however, that my comment is justified and, as stated
> above, make NO apologies for it.
> Tom Allinson WB6DGN
>
>
>

# 1831. Re: [hp8924] OT OT OT RE: Backup Battery

Yahoo group: hp8924
Date: 2014-03-08 20:48:36 UTC
From: <wb6dgn_tom@...>
Topic: 1821  Message: 1831

I apologize to the forum and to Mr. Kernkamp for bringing differences that did not originate here to this forum. I acknowledge that that was a tasteless and ignorant thing to do
To compound the foolishness of my post, I had long forgotten about the incident until I noticed his post and, instead of letting it go, I had to make a comment that clearly didn't belong here.
Once again, I apologize for my lack of discretion in diverting this thread.
Tom WB6DGN

# 1832. HP8924 to replace..

Yahoo group: hp8924
Date: 2014-03-12 21:42:38 UTC
From: <wallydoc@...>
Topic: 1832  Message: 1832

How would rate the Fluke 6071 in comparison to the freq generator in HP service monitors?
Also, how would the service monitor counter compare to an EIP 351C1 counter?
I am primarily concerned below 1 GHz.
I am thinking of getting a HP service monitor and wondering if it a good idea, I am mostly concerned about accuracy. The monitor would save some space on a cart since theoretically I could get rid of the big counter and big freq gen and my big spectrum analyzer.
I would also gain an RF ampmeter.
I understand the scope is only 50K and the audio gen and function gen are quite low in freq also.
Is this a good idea to use something like a hp8924c?
I really have not used a HP service monitor so I am asking for advice.
Any comments would be useful.
I use HP8553B spectrum, 1980B scope, 3456A voltmeter, and have 54200D digital scope
Thanks in advance,
Wally
KC9INK

# 1833. Re: [hp8924] HP8924 to replace..

Yahoo group: hp8924
Date: 2014-03-12 22:08:20 UTC
From: Robert Atkinson
Topic: 1832  Message: 1833

Hi Wally,
If you are servicing analog VHF/UHF radios you will not regret getting a 8924C.
Firstly accuracy. The 8924C has a high percision ovened oscillator so frequency accuracy will be better than the Fluke, even if the Fluke has the optional ovened oscillator. There is no comparison on the spectrum analyser, The 8924C wins hands down. I assume the 8553B is in a 141T mainframe. The 141T is analogue and drifts a lot (even with phase locking), I've owned and used a few. The 8924C SA is digitally synthesized and does not drift. You have automatic markers with on screen readouts of level and frequency. You also get a tracking generator to adjust filters etc. The frequency counter in the 8924C is as accurate as the EIP but does not have the range, just 1GHz. The 8924C also gives you an RF power meter, Modulation meter, full coverage receiver, full coverage transmitter (yes, there is a mic socket on the front panel, only low power though) CTCSS encode and Decoding and audio signal generator and voltmeter. The onlt downside of the 8924C is the
size and weight, but losing the 141T will compensate for most of that.
The 8924C also has computer connectivity and affordable options include software for return loss and VSWR measurement (with a directional coupler), scannnig receiver etc.
The only thing I'd swap my 8924C for is a 8920B with SA option! Go for it. I've used HP 892x, IFR, Marconi and R&S test sets and the 8924C holds its own.

Robert G8RPI.

---
From: "wallydoc@..." <wallydoc@...>
To: hp8924@yahoogroups.com
Sent: Wednesday, 12 March 2014, 21:42
Subject: [hp8924] HP8924 to replace..

How would rate the Fluke 6071 in comparison to the freq generator in HP service monitors?
Also, how would the service monitor counter compare to an EIP 351C1 counter?
I am primarily concerned below 1 GHz.
I am thinking of getting a HP service monitor and wondering if it a good idea, I am mostly concerned about accuracy. The monitor would save some space on a cart since theoretically I could get rid of the big counter and big freq gen and my big spectrum analyzer.
I would also gain an RF ampmeter.
I understand the scope is only 50K and the audio gen and function gen are quite low in freq also.
Is this a good idea to use something like a hp8924c?
I really have not used a HP service monitor so I am asking for advice.
Any comments would be useful.
I use HP8553B spectrum, 1980B scope, 3456A voltmeter, and have 54200D digital scope
Thanks in advance,
Wally
KC9INK

# 1834. Re: [hp8924] HP8924 to replace..

Yahoo group: hp8924
Date: 2014-03-12 22:17:48 UTC
From: Ralph Mowery
Topic: 1832  Message: 1834

The instruments you are compairing it to are somewhat differant so it is hard to compair.

I have a hp 8924C.  Make sure you get the C version.  The frequency is very accurate.  The best I can compair with is to set it for WWV at 20 mhz and it will only show 20 mhz or 19.9 all the way to the last cycle on the display.

I don't recall the lowest it will go, but it is lower than 500 khz.  The 8924 is not calibrated for power either in or out below 30 mhz,but it is about 3 db off at 10 mhz and more as you go lower.  For anything between 30 mhz and 1 ghz it will do almost anything you can think of for testing receivers and transmitters.  Add a return loss bridge and it will tune duplexers very well.

The manual for it is almost useless unless you are servicing the old analog phone systems..  Get the one for the 8920 as it is very similar to the 8924.

The 8924 usually has only a 3 watt input but there are some that have a 60 and 100 watt input rating.  The 60 watt unit will take slightly over 100 watts for about 10 seconds with a rest periond of several minuits.

If you have not seen it, you may want to check it out here.
http://www.amtronix.com/hp8924c60.htm

As it does so much , plan on spending a lot of time learning how to use it.
Then it is simple to setup.  I put mine on a roll around tool box from Sears as they do weigh about 65 pounds.

>_____
>From: "wallydoc@..." <wallydoc@yahoo.com>
>To: hp8924@yahoogroups.com
>Sent: Wednesday, March 12, 2014 5:42 PM
>Subject: [hp8924] HP8924 to replace..
>
>
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>
>
>How would rate the Fluke 6071 in comparison to the freq generator in HP service monitors?
>Also, how would the service monitor counter compare to an EIP 351C1 counter?
>I am primarily concerned below 1 GHz.
>I am thinking of getting a HP service monitor and wondering if it a good idea, I am mostly concerned about accuracy. The monitor would save some space on a cart since theoretically I could get rid of the big counter and big freq gen and my big spectrum analyzer.
>I would also gain an RF ampmeter.
>I understand the scope is only 50K and the audio gen and function gen are quite low in freq also.
>Is this a good idea to use something like a hp8924c?
>I really have not used a HP service monitor so I am asking for advice.

>Any comments would be useful.
>I use HP8553B spectrum, 1980B scope, 3456A voltmeter, and have 54200D digital scope
>Thanks in advance,
>Wally
>KC9INK
>
>

# 1835. Re: [hp8924] HP8924 to replace..

Yahoo group: hp8924
Date: 2014-03-12 22:36:08 UTC
From: <wallydoc@...>
Topic: 1832  Message: 1835

Thanks for the reply, Yea I read about the "C" model and I think you are right in recommending it.
It would be nice to also have the higher watt version, but I mostly need the low or milliwatt capacity.
I was also wondering about the coupler and the software (card)
Does it work kinda like a time domain reflectometer for analyzing feed lines and connectors and antenna stuff?
Also the oscilloscope function seems pretty wimpy, really only an AF scope.
That does not bother me since I use a HP1989B scope (which also weighs about 60-80#)
I really like my scope.
Wally KC9INK

# 1836. Re: [hp8924] HP8924 to replace..

Yahoo group: hp8924
Date: 2014-03-12 23:17:07 UTC
From: <wallydoc@...>
Topic: 1832  Message: 1836

Robert: Sorry I did not see your nice response before I wrote my previous response.
Thank you for your informed response. No too many people are familiar with this barnyard of equipment that I collected (and repaired).
Sounds like the right thing to buy, I do work on some VHF stuff but mostly on RF Ham stuff.
I really am getting too much weight on my test equip cart and think this will be the way to go.
If I can get rid of the spectrum analyzer and the fluke freq generator and put the EIP freq meter away for now,
It should keep me from going right through the floor!
If you have the time please comment further on using the 8924 for time delay reflectometry ( feedline and connector analysis) and comment on the scope function.
I also think I need a good frequency reference, I wonder what you think about GPS disciplined frequency standards vs Rubidium without GPS. I have read some of the comments on "Time Nuts" and would like to hear your comments.Maybe I really do not need anything special.
Wally
KC9INK

# 1837. Re: [hp8924] HP8924 to replace..

Yahoo group: hp8924
Date: 2014-03-12 23:24:13 UTC
From: Ralph Mowery
Topic: 1832  Message: 1837

The software card is not too much use to many.  If you are doing alot of testing on the same kind of radio, it may be useful for running automatic tests.

The retrun loss bridge is sort of like the TDR, but also much differant.  It is really a SWR bridge so to speak.  You hook it up and use the spectrum analizer and tracking generator. You then set a sweep over the frequencies you set up for that will give the return loss.  The SWR and RL is actually the same thing when talking about antennas.  One is just stated in DB and the other as a ratio.  For simple purpoes think of it as a graph showing the swr over the range of frequencies you set it for.

Yes, the scope is not much out of the audio range.

There is an application manual for the 8920 that explains how to set it up and many of the things you can use it for.  The 8920 is about the same as th 8924 without the cell phone stuff.  The manuals are free to download from the files section here or the Agliant website.

YOu can also set the 8924 to come on the way you want it to if you run one test much more than others.  There are also some memories so if you have tests you want to run, you just save the setup to memory and you can get to them by pressing a button or two.

>_____
>From: "wallydoc@yahoo.com" <wallydoc@...>
>To: hp8924@yahoogroups.com
>Sent: Wednesday, March 12, 2014 6:36 PM
>Subject: Re: [hp8924] HP8924 to replace..
>
>
>
>
>
>Thanks for the reply,
>Yea I read about the "C" model and I think you are right in recommending it.
>It would be nice to also have the higher watt version, but I mostly need the low or milliwatt capacity.
>
>I was also wondering about the coupler and the software (card)
>Does it work kinda like a time domain reflectometer for analyzing feed lines and connectors and antenna stuff?
>Also the oscilloscope function seems pretty wimpy, really only an AF scope.
>That does not bother me since I use a HP1989B scope (which also weighs about 60-80#)
>I really like my scope.
>Wally KC9INK
>
>
>

# 1838. Re: [hp8924] HP8924 to replace..

Yahoo group: hp8924
Date: 2014-03-12 23:39:43 UTC
From: Ralph Mowery
Topic: 1832  Message: 1838

How accurate do you need to be on the frequency ?  I am thinking the 8924 is good to about 100 hz near 1 ghz and less as the frequency goes down.

If you are mainly going to work on HF stuff, you really want the 8920 with the options.  It will cost about 3 to 5 times as much as the 8924c.  The 8924 will work below 30 mhz but  as I mentioned the power calibrations are off some to about 10 mhz and really off below that. The 8924 works very well to atleast 1 mhz if you don't care about the exect db being correct.
Above 30 mhz it is right on.

If you work with low power the 3 watt limitation will not be much of a problem.  Some work around that by hooking up an external 20 db pad to it.  Then you can set the 8924 software to compensate for that.

>_____
>From: "wallydoc@..." <wallydoc@...>
>To: hp8924@yahoogroups.com
>Sent: Wednesday, March 12, 2014 7:17 PM
>Subject: Re: [hp8924] HP8924 to replace..
>
>
>
>
>
>Robert:
>Sorry I did not see your nice response before I wrote my previous response.
>Thank you for your informed response. No too many people are familiar with this barnyard of equipment that I collected (and repaired).
>Sounds like the right thing to buy, I do work on some VHF stuff but mostly on RF Ham stuff.
>I really am getting too much weight on my test equip cart and think this will be the way to go.
>If I can get rid of the spectrum analyzer and the fluke freq generator and put the EIP freq meter away for now,
>It should keep me from going right through the floor!
>If you have the time please comment further on using the 8924 for time delay reflectometry ( feedline and connector analysis) and comment on the scope function.
>I also think I need a good frequency reference, I wonder what you think about GPS disciplined frequency standards vs Rubidium without GPS. I have read some of the comments on "Time Nuts" and would like to hear your comments.Maybe I really do not need anything special.
>Wally
>KC9INK
>
>

# 1839. Re: [hp8924] HP8924 to replace..

Yahoo group: hp8924
Date: 2014-03-12 23:45:07 UTC
From: <wallydoc@...>
Topic: 1832  Message: 1839

Thanks again Ralph, I have seen the graph of the return loss and It did occur to me that the return loss was really just and SWR reading, made more useful by seeing the return loss over a frequency range.
Perhaps I will acquire a TDR just for the feedline stuff. I can get one for a very attractive price.
I am sold on the usefulness of the 8924. I realize that the dbm accuracy will not be good below 10MHz, but most radio tuning requires looking for a max or min. Freq readings are more critical, in my opinion.
I think I am going to look at one tomorrow.
Thanks again
Wally
KC9INK

# 1840. Re: [hp8924] HP8924 to replace..

Yahoo group: hp8924
Date: 2014-03-13 03:22:24 UTC
From: Ralph Mowery
Topic: 1832  Message: 1840

I don't think you will go wrong for the price of most of the 8924C.  They are usually around $ 1000.  A lot of equipment for the money.  Just be prepared to spend a lot of time with it and you may want to go to the Yahoo 8924 group and look around.  Lots of good info there.

For adjusting for a max or minimum theh 8924c works fine.  The frequency will be  as good or beter than most anything out that is not locked to the GPS system or some other standard external to the device.

A TDR just sends a pulse down the line (so to speak) and any change in impedance is shown up on the trace. The RL usually just shows up as the impedance at the connector of the RLB.

A good TDR can be adjusted to show up impedance bumps in the line and where they are at. Such as I had a feedline that was about 100 feet long and was made up of 2 pieces of hardline with a connector in the middle.  You could just see the connector showing up on the screen. The RLB will not do that.

>_____
>From: "wallydoc@..." <wallydoc@...>
>To: hp8924@yahoogroups.com
>Sent: Wednesday, March 12, 2014 7:45 PM
>Subject: Re: [hp8924] HP8924 to replace..
>
>
>
>
>
>Thanks again Ralph,
>I have seen the graph of the return loss and It did occur to me that the return loss was really just and SWR reading, made more useful by seeing the return loss over a frequency range.
>Perhaps I will acquire a TDR just for the feedline stuff. I can get one for a very attractive price.
>I am sold on the usefulness of the 8924. I realize that the dbm accuracy will not be good below 10MHz, but most radio tuning requires looking for a max or min. Freq readings are more critical, in my opinion.
>I think I am going to look at one tomorrow.
>Thanks again
>Wally
>KC9INK
>
>

# 1841. Re: [hp8924] HP8924 to replace..

Yahoo group: hp8924
Date: 2014-03-13 07:23:47 UTC
From: Robert Atkinson
Topic: 1832  Message: 1841

Hi Wally,
You don't rally need a GPSDO for routine running of an 8924C, it has a good quality ovened oscillator. This was required for the cellular radios. I have a couple of GPSDOs (Thunderbolt, Odetics) and RBs but don't normally connect them to the 8924C. The basic unit will work as a scalar analyser (SA and tracking generator) and plot approximate VSWR (with a coupler or return loss bridge) without additional software. The software card (Declaration of interest, I sell them on ebay item 261407685501 I accept offers of £30 fro list members) Allows you to "normalise" the coupler or bridge, i.e. compensate for losses and frequency response. This gives accurate readings but is slower. If tuning filters it's best to adjust on the basic display and then check with the software. The software also has a TDR like cable fault function but I've not used it.
On power, I prefer an external attenuator as this keeps heat out of the unit and does not reduce the low level sensitivity. Just don't forget to fit it. You enter an offset to compensate for the attenuator so the displayed readings are correct. This means that you can use a odd value of attenuation if you have one.
HTH,
Robert

---
From: "wallydoc@..." <wallydoc@yahoo.com>
To: hp8924@yahoogroups.com
Sent: Wednesday, 12 March 2014, 23:17
Subject: Re: [hp8924] HP8924 to replace..

Robert:
Sorry I did not see your nice response before I wrote my previous response.
Thank you for your informed response. No too many people are familiar with this barnyard of equipment that I collected (and repaired).
Sounds like the right thing to buy, I do work on some VHF stuff but mostly on RF Ham stuff. I really am getting too much weight on my test equip cart and think this will be the way to go.
If I can get rid of the spectrum analyzer and the fluke freq generator and put the EIP freq meter away for now,
It should keep me from going right through the floor!
If you have the time please comment further on using the 8924 for time delay reflectometry ( feedline and connector analysis) and comment on the scope function.
I also think I need a good frequency reference, I wonder what you think about GPS disciplined frequency standards vs Rubidium without GPS. I have read some of the comments on "Time Nuts" and would like to hear your comments.Maybe I really do not need anything special.
Wally
KC9INK

# 1842. Re: [hp8924] HP8924 to replace..

Yahoo group: hp8924
Date: 2014-03-13 12:49:04 UTC
From: <wallydoc@...>
Topic: 1832  Message: 1842

Many thanks to Ralph and Robert Thanks for the tip on the card that normalizes 8924C power at low freq. Using software to obtain a TDR reading would also be nice.
I put off my visit to the owner of the test equipment to next week, in order to familiarize myself with the service monitor. Apparently a relatively large RF company is letting some old equipment go.
I am still not sure what is available, but there is a lot.Including some very high power RF tubes that I have no use for.(20K watts? or more). All sorts of scopes, don't think I need any more(maybe I'll find a GHz scope though).
Any recommendations on freq standard in case I find one for not too much money?
Any other goodies I should look for? They do have some TDRs and the price is so good I may buy one so I don't have to move the service monitor I will hopefully buy.
It would be a nice thing to take to antenna installations, and would be something I could lend to other Hams with little instruction.
Wally KC9INK

# 1843. New member - firmware upgrade?

Yahoo group: hp8924
Date: 2014-03-17 00:26:34 UTC
From: Geraldo Lino de Campos
Topic: 1843  Message: 1843

I have a HP 8935, serial US385..., firmware A.02.05, and I have questions about upgrading.
Newer firmware offers additional functions? Is there a repository for firmware releases?
O looked at the threads about extending the range of Spectrum analyzer to 0 to 2 GHz, but it appears to be inconclusive. Did someone managed to do the hack?

--
---
Geraldo Lino de Campos
geraldo@...

# 1844. Thank you!

Yahoo group: hp8924
Date: 2014-03-29 03:42:58 UTC
From: <n7kuw@...>
Topic: 1844  Message: 1844

New member to the group, and new owner of an HP8924C. I just want to say thanks to this group and everyone who has contributed to it, it has been a fantastic resource on getting used to the 8924 and putting it to effective use.

# 1845. hp 8924C

Yahoo group: hp8924
Date: 2014-04-02 01:27:38 UTC
From: <wb7dmx@...>
Topic: 1845  Message: 1845

just a simple question, can one use a probe like a scope probe and use it as if it were a signal tracer, to check each stage of a power amplifier on a two meter rig ?
that would be a great tool if you can. not too concerned about the power reading, just that each stage had more.
I have the 100 watt version.

# 1846. Re: [hp8924] hp 8924C

Yahoo group: hp8924
Date: 2014-04-02 02:48:30 UTC
From: Rodney Rockwell
Topic: 1845  Message: 1846

Being that is a 50 ohm input, you would likely load down the circuit you are trying to measure. Perhaps building up a hi-z pad may work.

Rod
N8RAT

---
From: "wb7dmx@..." <wb7dmx@...>
To: hp8924@yahoogroups.com
Sent: Tuesday, April 1, 2014 9:27 PM
Subject: [hp8924] hp 8924C

just a simple question, can one use a probe like a scope probe and use it as if it were a signal tracer, to check each stage of a power amplifier on a two meter rig ?
that would be a great tool if you can. not too concerned about the power reading, just that each stage had more.
I have the 100 watt version.

# 1847. Re: hp8924

Yahoo group: hp8924
Date: 2014-04-02 04:57:57 UTC
From: <wb4yjt@...>
Topic: 1845  Message: 1847

You can use a scope probe to trace RF through circuits, but, as another poster mentioned, the 50 Ohm input of the 8924 will result in a great deal of attenuation of the signal presented at the end of the probe, so the level readings on the 8924 will be way off.

And, for tuned circuits, the capacitance of the probe will cause a de-tuning of the circuit, possibly to the point of not working, depending on the frequency (higher frequency circuits will be more affected than lower frequency ones).

But, if you probe low-impedance points, the effect of the probe on the circuit will be fairly low.

I often use a scope probe on my 8924, with the probe nearby an active oscillator circuit, (not connected - just near) just to see if the circuit is working, and what frequency it is on.

# 1848. Re: hp8924

Yahoo group: hp8924
Date: 2014-04-02 05:05:57 UTC
From: <wb7dmx@...>
Topic: 1845  Message: 1848

very good, I do have a scope probe that does not use a contact, kind of like a sniffer probe, so it looks like I will be save to use it,, anyway I will try it out tomorrow,

# 1849. Re: [hp8924] Re: hp8924

Yahoo group: hp8924
Date: 2014-04-02 07:51:07 UTC
From: keith
Topic: 1845  Message: 1849

Use the probe in x1 attenuation. or you should really use a high impedance amplifed probe which has a low impedance output and a high impedance input usually several hundred K by the time you take into account the capacitance. You may remember the old cathode follower probes or emitter follow probes . I picked up several HP probes off BEAY a few years ago for use with a spec an.

From: wb7dmx@...
Sent: Wednesday, April 02, 2014 6:05 PM
To: hp8924@yahoogroups.com
Subject: [hp8924] Re: hp8924

very good, I do have a scope probe that does not use a contact, kind of like a sniffer probe, so it looks like I will be save to use it,, anyway I will try it out tomorrow,

# 1850. Re: [hp8924] hp 8924C

Yahoo group: hp8924
Date: 2014-04-02 07:57:07 UTC
From: keith
Topic: 1845  Message: 1850

Have a look at the probes on EBAY like HP1121A a 500 Mhz FET probe.
The Tektronix P6202a or the Tek P6243 probe which is a 1Ghz probe.

From: wb7dmx@att.net
Sent: Wednesday, April 02, 2014 2:27 PM
To: hp8924@yahoogroups.com
Subject: [hp8924] hp 8924C

just a simple question, can one use a probe like a scope probe and use it as if it were a signal tracer, to check each stage of a power amplifier on a two meter rig ?

that would be a great tool if you can. not too concerned about the power reading, just that each stage had more.

I have the 100 watt version.

# 1851. ZFDC-20-5

Yahoo group: hp8924
Date: 2014-04-03 14:37:41 UTC
From: <n2kpk@...>
Topic: 1851  Message: 1851

On the zfdc-20-5 coupler from mini circuits what would be the dut port and what would be the proper way to connect to hp8924c to normalize it. Thank you
Jay...
1 more ?... I have a wacom WP678-R1 DUPLEXER the instruction from website show tuninig without rlb how would one do it with an rlb?

Jay n2gq

# 1852. Re: [hp8924] ZFDC-20-5

Yahoo group: hp8924
Date: 2014-04-03 19:20:51 UTC
From: Ralph Mowery
Topic: 1851  Message: 1852

Here is what I read a while back.

Using the 8924 with a Mini-Circuits ZFDC-20-5 to measure return loss.

The first thing to do is to configure the 8924 for "duplex out" and "antenna in"and set up the tracking generator for no offset. To measure return loss hook the "duplex out" on the generator to the "out" connection of the directional coupler. Then hook the "antenna in" port to "couple" of the directional coupler. You can now establish the base line on the spectrum analyzer as this will show infinite SWR or minimum return loss. It should read about 20 db less than what you are generating. Once you've done this connect the load or device under test to the "in" port of the coupler. The space under the base line on the spectrum analyzer is the return loss in negative db. (Note: this may be counter intuitive to some but we're using the directional coupler to measure what's coming back as apposed to what's going out which is what the labels on it are for.)

@@@@@@@@@@@@@@@@@@

Not sure if that is what you need.  I have one and I connect the Minicircuits OUT to the 8924 Duplex Output.  The  MC CPL goes to the 8924 Ant IN.  The MC  IN goes to the duplexer or any other thing you want to see the RL from.

I am not sure about that particular duplexer, but mainly you put a dummy load on the Duplexer antenna and the side that you are not adjusting.  Then you adjust the pass cavities on the side the 8924 is connected to for maximum RL.  Then move the dummy load and the RL to the other side of the duplexer  and adjust it.

To normalize the RL bridge, hook it up as above.  If you set the levels of the 8924 to 0 db then you will see a line about 20 db from the top.  Go to the Aux screen and toward the right you will see something like A,Save B B-A (could be A-B as I am not at my 8924) .  Do not connect anything to the IN port of the MC RLB.  Then scroll to the part mentioned.  Push the know to save B, then push it again to the B-A is highlighted and the trace should be at the top of the screen.  When you connect something to the IN of the MC RLB part of the trace will go toward the bottom of the screen.  The lower the trace goes , the beter the  RL will be.  YOu do not have to normilize the 8924, but it makes it easy to tell how many db down the trace is.

There are some you tube vidios on how to do this,  They are for the E8258 or something like that.  That instrument is slightly diffrant, but the screens are very close.  Also look for info on the 8920 test sets.  The screens are also very close to the 8924.

After that you can remove the RL bridge and set the 8924 up for the notches.  You adjust the notches last.

Thre are probably some files in the group files section that tell how to adjust the duplexers.

If your duplexer is notch only, then you do not use the RL bridge.

On Thursday, April 3, 2014 12:46 PM, "n2kpk@..." <n2kpk@verizon.net> wrote:

>
>
>On the zfdc-20-5 coupler from mini circuits what would be the dut port and what would be the proper way to connect to hp8924c to normalize it.
>Thank you
>Jay...
>1 more ?... I have a wacom WP678-R1 DUPLEXER the instruction from website show  tuninig without rlb how would one do it with an rlb?
>
>
>Jay n2gq
>
>
>
>
>

# 1853. Timebase issue

Yahoo group: hp8924
Date: 2014-04-09 16:34:48 UTC
From: <audiomenani@...>
Topic: 1853  Message: 1853

Hello, first i have to apologize for my poor english. This is my fist time here.
I´m having a issue with timebase source selector.
Even with the link between oven output and the REF in being connected, the unit (HP8924C) insists to make analog measures souced from internal time base (TCXO).
So in my case, there is an offset, TCXO is out about 144Hz.Then when working at 900MHz, it goes off about 11KHz.
Ok, in service menu has a latch "refs_tbase_select" and the default value is "1".When i change this value to 0 or 2, it select reference source to the REF IN port. and everything becomes ok. (at least, the frequency on the REF OUT port act as if it were).
So when cycle power, by the way, it returns that latch value to the default "1". and i have to run all that menu to reselect the proper value.
FW version of this unit is A.08.02
The question is, someone knows how to change this latch default value? Owners could share this knowledge?
Save preset don´t work for this. I've tried.
.
Thanks in advance.

# 1854. Spectrum Analyzer Navigation

Yahoo group: hp8924
Date: 2014-04-24 06:41:55 UTC
From: <tomasguerro@...>
Topic: 1854  Message: 1854

While hunting for intermod I was using the spectrum analyzer and located the spike I was looking for. With the little flashing dot on my frequency how do I put the dot on the located frequency and bring it in the middle?

Thank you.

# 1855. Re: Spectrum Analyzer Navigation

Yahoo group: hp8924
Date: 2014-04-24 14:22:03 UTC
From: <n7kuw@...>
Topic: 1854  Message: 1855

```
Under Control push knob and then select MARKER
Then move cursor to POSITION
Rotate knob to put marker on spike
Then move cursor to Marker To ... Center Freq
```

# 1856. Re: Spectrum Analyzer Navigation

Yahoo group: hp8924
Date: 2014-04-26 00:15:52 UTC
From: <tomasguerro@...>
Topic: 1854  Message: 1856

TADA! I also have the option of Peak/Next Peak. Thank you!!!

# 1857. Repacement feet/8924C

Yahoo group: hp8924
Date: 2014-04-26 01:11:16 UTC
From: <kb9jzy@...>
Topic: 1857  Message: 1857

I seem to remember someone offering Aluminum replacement feet?
If so I would love to hear about it.

Terry K9HA

# 1858. Re: Repacement feet/8924C

Yahoo group: hp8924
Date: 2014-04-30 20:43:55 UTC
From: <wb6dgn_tom@...>
Topic: 1857  Message: 1858

I recall that too but, if I'm not mistaken, they were the ones that mounted to the BACK of the instrument to allow it to stand vertically for field(???) use. I don't believe that person offered the feet that replaced the bottom ones.
Unfortunately, they were too pricey for me so I didn't keep any contact information.
Perhaps an internet search would turn up something?
Tom

# 1859. Re: [hp8924] Re: Repacement feet/8924C

Yahoo group: hp8924
Date: 2014-05-01 06:30:51 UTC
From: Robert Atkinson
Topic: 1857  Message: 1859

Hi,
The feet were offered by KB0NES see message 987 or there abouts, it's a long string with multiple subjects covered. They were the rear stand-off feet.
or search the group for  "machined from solid Delrin"

HTH,
Robert G8RPI.

From: "wb6dgn_tom@..." <wb6dgn_tom@...>
To: hp8924@yahoogroups.com
Sent: Wednesday, 30 April 2014, 21:43
Subject: [hp8924] Re: Repacement feet/8924C

I recall that too but, if I'm not mistaken, they were the ones that mounted to the BACK of the instrument to allow it to stand vertically for field(???) use.  I don't believe that person offered the feet that replaced the bottom ones.
Unfortunately, they were too pricey for me so I didn't keep any contact information.
Perhaps an internet search would turn up something?
Tom

# 1860. Where is duplexer tuning in the 8920B Manual?

Yahoo group: hp8924
Date: 2014-05-03 12:12:46 UTC
From: <tomasguerro@...>
Topic: 1860  Message: 1860

I am using the 8920B manual as suggested but I don't seem to find a page(s) on duplexer tuning.

# 1861. Re: Where is duplexer tuning in the 8920B Manual?

Yahoo group: hp8924
Date: 2014-05-03 13:14:47 UTC
From: <n7kuw@...>
Topic: 1860  Message: 1861

Check page 222 of the Applications Handbook (HP8920A & HP8920B RF Communications Test Set, Application Handbook).

# 1862. Re: [hp8924] Where is duplexer tuning in the 8920B Manual?

Yahoo group: hp8924
Date: 2014-05-03 15:31:06 UTC
From: Ralph Mowery
Topic: 1860  Message: 1862

I am not sure if it is in the manual or not.  There are several manuals for the 8920b.

Instead of the expensive RLB mentiioned, MiniCircuits makes one that works very well and is less than $ 100.

Using the 8924 with a Mini-Circuits ZFDC-20-5 to measure return loss.

The first thing to do is to configure the 8924 for "duplex out" and "antenna in"and set up the tracking generator for no offset. To measure return loss hook the "duplex out" on the generator to the "out" connection of the directional coupler. Then hook the "antenna in" port to "couple" of the directional coupler. You can now establish the base line on the spectrum analyzer as this will show infinite SWR or minimum return loss. It should read about 20 db less than what you are generating. Once you've done this connect the load or device under test to the "in" port of the coupler. The space under the base line on the spectrum analyzer is the return loss in negative db. (Note: this may be counter intuitive to some but we're using the directional coupler to measure what's coming back as apposed to what's going out which is what the labels on it are for.)

Look at You tube for some duplexer tuning.  There is a good one for the e8285 which the screen display is very similar to the 8920/8924 series.
Duplexer Tuning

Duplexer Tuning
View on www.youtube.com Preview by Yahoo

On Saturday, May 3, 2014 8:12 AM, "tomasguerro@yahoo.com" <tomasguerro@...> wrote:

>
>
>I am using the 8920B manual as suggested but I don't seem to find a page(s) on duplexer tuning.
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# 1863. New file uploaded to hp8924

Yahoo group: hp8924
Date: 2014-05-03 18:59:11 UTC
From: hp8924@yahoogroups.com
Topic: 31  Message: 1863

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hp8924
group.

File : /VA7OJ RLB Data/RL_MCL_ZFDC_20_5_NARDA_50_OHM.bmp
Uploaded by : va7oj <farson@...>
Description : Return loss of Narda 50-ohm termination, measured on HP 8935 with MCL
ZFDC-20-5

You can access this file at the URL:
https://groups.yahoo.com/group/hp8924/files/VA7OJ%20RLB%20Data/RL_MCL_ZFDC_20_5_NARDA_50_O
HM.bmp

To learn more about file sharing for your group, please visit:
https://help.yahoo.com/kb/index?page=content&y=PROD_GRPS&locale=en_US&id=SLN15398

Regards,

va7oj <farson@...>

# 1864. New file uploaded to hp8924

Yahoo group: hp8924
Date: 2014-05-03 19:09:59 UTC
From: hp8924@yahoogroups.com
Topic: 31  Message: 1864

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hp8924
group.

File : /VA7OJ RLB Data/RL_SW2012N_narda_cal_term.bmp
Uploaded by : va7oj <farson@...>
Description : Return loss of 50-ohm termination measured on HP 8935 with Amtronix SW2012N RLB

You can access this file at the URL:
https://groups.yahoo.com/group/hp8924/files/VA7OJ%20RLB%20Data/RL_SW2012N_narda_cal_term.bmp

To learn more about file sharing for your group, please visit:
https://help.yahoo.com/kb/index?page=content&y=PROD_GRPS&locale=en_US&id=SLN15398

Regards,

va7oj <farson@...>

# 1865. Re: [hp8924] Where is duplexer tuning in the 8920B Manual?

Yahoo group: hp8924
Date: 2014-05-03 19:15:02 UTC
From: <farson@...>
Topic: 1860  Message: 1865

I have just posted two return loss charts taken on my HP 8935, with an MCL ZFDC-20-5 and an Amtronix SW2012N RLB. The Amtronix bridge is very flat to 1 GHz, but the MCL coupler is pretty decent by comparison. The charts are in the "VA7OJ RLB data" folder in the Files section.

Last year, the RF/microwave parts vendor with the long tent behind the Mendelsons' tent in the Dayton flrea-market had NOS ZFDC-20-5's with N fittings at $35 each.

73, Adam VA7OJ/AB4OJ

# 1866. Re: [hp8924] Where is duplexer tuning in the 8920B Manual?

Yahoo group: hp8924
Date: 2014-05-03 19:37:04 UTC
From: <robert8rpi@...>
Topic: 1860  Message: 1866

Hi,
it is also worth noting that if you use the HP RF Tools utility software (11807 Option 100) the normalization process compensates for any variation in the frequency response and flatness of the coupler. While RF Tools "single sweep" is not useful for actually adjustments, it's great for actual measurements. You adjust for best performance in the normal tracking generator / spectrum analyser mode, then take measurements of the actual performance with RF Tools. This allows you to take accurate measurements with general pourpose couplers and bridges. A 3dB hybrid splitter/combiner can also be used as a RLB. A 6dB hybrid splitter combiner (actually 3 3dB ones in one box) with teminators on the middle two ports gives even better isolation. The terminators in the middle don't even have to be high performance.

Robert G8RPI.

# 1867. Re: [hp8924] Where is duplexer tuning in the 8920B Manual?

Yahoo group: hp8924
Date: 2014-05-03 22:19:53 UTC
From: <ku4pt@...>
Topic: 1860  Message: 1867

Thanks for posting the results of the two RLB. I know the Minicircuits is not as good as the others, but unless you want lab results the one I have seems fine for most testing and tuning. I did compair the results to one that is similar to the 2012. Not sure if it was an IFR or not. If they make one, it was. A 6 cavity 2 meter duplexer could not be improved on with the higher dollar RLB. I would say anything past 25 db in the field is mostly guess work anyway as most dummy loads will have less than that, especially if you throw in some jumpers and adapters. The fact that it is about $ 40 to $ 70 instead of 5 to 10 times the price makes it desiriable for ham use.

# 1868. Re: Where is duplexer tuning in the 8920B Manual?

Yahoo group: hp8924
Date: 2014-05-06 02:52:30 UTC
From: <tomasguerro@...>
Topic: 1860  Message: 1868

Page 222 of my manual is "Passive Cavity Insertion and Return Loss Measurement". How many manuals are there? :)

# 1869. Signal Generator : Setting Output in Milivolts

Yahoo group: hp8924
Date: 2014-05-06 03:04:35 UTC
From: <tomasguerro@...>
Topic: 1869  Message: 1869

Frustration is setting in with the 8924C. My tuning instructions indicate that I set a 1mV signal on frequency. I only see how to set it in dBm. What am I missing? Is this an audio level?

# 1870. RE: [hp8924] Signal Generator : Setting Output in Millivolts

Yahoo group: hp8924
Date: 2014-05-06 03:20:47 UTC
From: Adam Farson
Topic: 1869  Message: 1870
Attachments: 2 described; binary payloads are missing from this source WARC

Hi Tomas,

1 mV in 50Ω = -47 dBm. 1 µV in 50Ω = -107 dBm.

73, Adam VA7OJ/AB4OJ

From: hp8924@...m [mailto:hp8924@yahoogroups.com] On Behalf Of tomasguerro@...
Sent: 5-May-14 20:05
To: hp8924@yahoogroups.com
Subject: [hp8924] Signal Generator : Setting Output in Milivolts

Frustration is setting in with the 8924C. My tuning instructions indicate that I set a 1mV signal on frequency. I only see how to set it in dBm. What am I missing? Is this an audio level?

# 1871. Re: [hp8924] Signal Generator : Setting Output in Milivolts

Yahoo group: hp8924
Date: 2014-05-06 03:28:18 UTC
From: Ralph Mowery
Topic: 1869  Message: 1871

I am not understanding  the question.

If you are talking about setting the RF to  milivlots  then you highlight the rf output where you are seeing dbm and on the keypad go to the far right and look for a button with khz and mV on it.  Press it to get to mV.  That would be the darker color key to the far right about 2 rows up from the bottom.  To go to any other measurment such as uV or dbM  highlight the function by pressing the round knob when the curser is over it and then press the dark color button with the desired type of output.

On Monday, May 5, 2014 11:04 PM, "tomasguerro@..." <tomasguerro@...> wrote:

>
>
>Frustration is setting in with the 8924C. My tuning instructions indicate that I set a 1mV signal on frequency. I only see how to set it in dBm. What am I missing? Is this an audio level?
>
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# 1872. RE: [hp8924] Signal Generator : Setting Output in Millivolts

Yahoo group: hp8924
Date: 2014-05-06 03:42:16 UTC
From: <tomasguerro@...>
Topic: 1869  Message: 1872

Oh I see! I just need to convert mV to dBm. I didn't know if it was an audio level. That was too easy. Thank you!

I hate being the rookie :(

# 1873. Re: Where is duplexer tuning in the 8920B Manual?

Yahoo group: hp8924
Date: 2014-05-06 04:28:37 UTC
From: <n7kuw@...>
Topic: 1860  Message: 1873

Yes, that is the title in my copy also, but following the procedure will allow you to tune duplexers.

# 1874. Dayton

Yahoo group: hp8924
Date: 2014-05-10 12:59:10 UTC
From: wallydoc@...
Topic: 1874  Message: 1874

Is anyone going to be at Dayton with any interesting equipment?
It would be nice to know the locations of interest.
Wally
KC9INK

# 1875. Parts/Accessories For Sale

Yahoo group: hp8924
Date: 2014-05-12 19:47:22 UTC
From: jsternmd@...
Topic: 1875  Message: 1875

I sold my HP 8920B and have some spare things that would be good for the 8924C as well. If interested, Please contact me direct by email

New CRT Module (Omnivision for HP/Agilent) - LP0619EVC. Amtronix sells these for $500 - This is a complete drop in replacement with all boards, etc. NIB for $250 plus shipping

MVC-007 Videoconverter - like new for attaching external VGA monitor to HP8924C/8902A/B. $125 plus shipping.

New 8920A/B rubber inlay keypad buttons (bought direct from Agilent) - $65 (don't think this matches the 8924C)

thanks

Jerry
K1JOS

# 1876. 8920A SA CAL. ?

Yahoo group: hp8924
Date: 2014-05-18 18:06:01 UTC
From: mriisj@...
Topic: 1876  Message: 1876

Hi, I am new to this forum and have a question about calibrating the spectrum analyzer on my 8920A it is the opt. 104 version, it show 2 dB less than the actual power level, I have run all internal tests without any errors, any idea on how to calibrate this ?

I also would like to upgrade the 60W input attenuator to the 100W model, I see that people has done this with success on the 8924 model, is this also possible on the 8920 model and if yes how do I upgrade the software and calibrate the unit for this?

Michael, OZ2ELA

# 1877. Re: Spectrum Analyzer ~ 12 dB off: WAS HP-8924C 60 Watt Upgrade from eBay

Yahoo group: hp8924
Date: 2014-05-19 06:20:40 UTC
From: kc8ufl@...
Topic: 638  Message: 1877

Hi Mike,

I joined this group specifically because I found your post about the diags failure... these probably look familiar to you:

RF Input Signal

| Vertical Sensitivity | Lower (Vdc) | Upper (Vdc) | Actual (Vdc) |
|---|---|---|---|
| 10 dB/div (absolute) | 1.608 | 2.176 | 1.590** |
| 10 db/div (relative) | .640 | .960 | .715 |
| 2 dB/div | .480 | 1.120 | .368** |
| 1 dB/div | .320 | 1.280 | .109** |

Down Converters (With Spectrum Analyzer)

| Description | Lower (Vdc) | Upper (Vdc) | Actual (Vdc) |
|---|---|---|---|
| 100 Mhz, 614.3 Mhz IF | -4.500 | 4.500 | -10.294** |
| 500 Mhz, 114.3 Mhz IF | -4.500 | 4.500 | -10.048** |
| 900 Mhz, 114.3 Mhz IF | -4.500 | 4.500 | -5.817** |

Ultimately, I can't find a post on how you solved the problem. Can you share what the solution was?

Thanks a bunch,

Michel

# 1878. New file uploaded to hp8924

Yahoo group: hp8924
Date: 2014-05-30 16:43:08 UTC
From: hp8924@yahoogroups.com
Topic: 31  Message: 1878

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hp8924
group.

File : /HP-8924_100W_upgrade.pdf
Uploaded by : c_day_nz <zl1cvd@...>
Description : 8924 100W Upgrade

You can access this file at the URL:
https://groups.yahoo.com/group/hp8924/files/HP-8924_100W_upgrade.pdf

To learn more about file sharing for your group, please visit:
https://help.yahoo.com/kb/index?page=content&y=PROD_GRPS&locale=en_US&id=SLN15398

Regards,

c_day_nz <zl1cvd@...>

# 1879. Rubidium frequency standard

Yahoo group: hp8924
Date: 2014-06-09 22:19:56 UTC
From: kb2wf.tx@...
Topic: 1879  Message: 1879

If you are interested in a rubidium frequency standard, I have posted one on ebay with power supply, starting bid $90, with frequency dividers.

Item 161331550827

Alan kb2wf

# 1880. Re: 8920A SA CAL. ?

Yahoo group: hp8924
Date: 2014-06-10 16:21:43 UTC
From: jyelmgren@...
Topic: 1876  Message: 1880

You may want to check the specs on the 8920A and that may actually be in the range but on the edgeof the limist.

I would like to be able to adjust this as well to tweak those units up since the 8920 and 8924's appear to drift low over time.

It would be a matter of going into service mode and adjusting the values.

The question is the procedure and which values to adjust.

The attenuator procedure would be the same as the 8924 but the issue is you need the older Epson style SRAM cards to do this the factory way and a PC with an EPSON memory card slot.

Other way is to go into service mode and adjust the values for the attenuator directly. Believe there are some posts on doing this since the initial cal data supplied on the board may be off slightly.

# 1881. HP 8924C available

Yahoo group: hp8924
Date: 2014-06-27 02:38:36 UTC
From: wb6dgn_tom@...
Topic: 1881  Message: 1881

HP 8924C available. Very nice condition. Last calibration at Amtronix on 10/2010, calibration data and sticker available.
Asking $1850 shipped in Cont. US or reasonable offer. Pickup also available and encouraged
Email for details, wb6dgn_tom <at> att <dot> net.
Thanks,
Tom

# 1882. FS: HP 8935 Carry Case

Yahoo group: hp8924
Date: 2014-06-29 17:56:08 UTC
From: Frederick Bray
Topic: 1882  Message: 1882

Good Morning,

I happen to have a spare yellow nylon carrying case for the HP 8935 that is surplus to my needs. The case is used and in generally good condition except for 2 or 3 holes in the mesh that covers the ventilation openings on the left side of the 8935. These don't affect the utility of the case and the mesh could probably be repaired or replaced. The case has some padding to protect the unit and is designed so that the service monitor can be used without removing it from the case. If you want a general idea what these cases look like, you can see the recent eBay item # 321399576749. (I have no connection with that listing but it does have pictures of the case.)

I am asking $30 for the case, including ground shipping. Please contact me off-line.

Fred Bray
KE6CD

# 1883. Re: [hp8924] FS: HP 8935 Carry Case

Yahoo group: hp8924
Date: 2014-06-30 03:05:59 UTC
From: Frederick Bray
Topic: 1882  Message: 1883

I should have added that I will consider offers.

The $30 asking price is to ensure that shipping is covered. It takes up a bit of space in a box because it has a couple of hard inserts in the pockets. Thus, one can't just roll it up and stick it in a smaller box. I haven't got a shipping quote yet. I am not looking to make a profit on it, just to find it a better home for it than the trash bin.

Thanks.

KE6CD

On 6/29/2014 10:56 AM, Frederick Bray fwbray@... [hp8924] wrote:
> Good Morning,
>
> I happen to have a spare yellow nylon carrying case for the HP 8935 that
> is surplus to my needs. The case is used and in generally good
> condition except for 2 or 3 holes in the mesh that covers the
> ventilation openings on the left side of the 8935. These don't affect
> the utility of the case and the mesh could probably be repaired or
> replaced. The case has some padding to protect the unit and is designed
> so that the service monitor can be used without removing it from the
> case. If you want a general idea what these cases look like, you can
> see the recent eBay item # 321399576749. (I have no connection with that
> listing but it does have pictures of the case.)
>
> I am asking $30 for the case, including ground shipping. Please contact
> me off-line.
>
> Fred Bray
> KE6CD
>
>

# 1884. Re: Using the HP 83236B with the 8924C

Yahoo group: hp8924
Date: 2014-06-30 12:57:15 UTC
From: sv1mne@...
Topic: 1624  Message: 1884

Hi Don,

You have to make the following connections and configuration (as depicted in the manual)

1. From Agilent 8924 DUPLEX OUT To Agilent 83236 FROM DUPLEX OUT
2. From Agilent 8924 ANT IN To Agilent 83236 TO ANT IN
3. From Agilent 8924 SERIAL PORT To Agilent 83236 SERIAL PORT
4. From Agilent 8924 10 MHz REF OUTPUT To Agilent 83236 REF IN
5. From Agilent 8924 POWER DET To Agilent 83236 DET OUT
6. Set the GPIB Address Selector of the rear panel of the PCS Interface as follows.
GPIB/Ser switch: Ser
GPIB address: Any
7. Set up the Test Set:
a. Turn on the Test Set.
b. Press and release the SHIFT key then the TESTS key to access the CONFIGURE screen.
c. Position the cursor in the “PCS Intrfc Control” field, and press the knob to select “On.”
d Turn the Test Set’s power off and then back on.
8. Perform the RF Generator Level Calibration:
a. Press and release the SHIFT key then the TESTS key to access the CONFIGURE screen.
b. Position the cursor in the “RF Gen Level” field, and press the knob to start the calibration.

Yiannis
sv1mne

# 1885. FS: HP 8924 Power Supply

Yahoo group: hp8924
Date: 2014-07-14 02:29:08 UTC
From: Frederick Bray
Topic: 1885  Message: 1885

I have a spare HP 8924C power supply that I would like to find a new home for. It works and has had the two most failure prone small capacitors replaced. (These are the ones that can keep it from turning on.)

I am asking $80.00 plus actual shipping. It will be carefully packed.

Please contact me off-line.

Fred Bray
KE6CD

# 1886. New file uploaded to hp8924

Yahoo group: hp8924
Date: 2014-07-14 05:53:00 UTC
From: hp8924@yahoogroups.com
Topic: 31  Message: 1886

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hp8924
group.

File : /HP-8924C_100W_upgrade.pdf
Uploaded by : c_day_nz <zl1cvd@...>
Description : 8924 - How to upgrade to 100W

You can access this file at the URL:
https://groups.yahoo.com/neo/groups/hp8924/files/HP-8924C_100W_upgrade.pdf

To learn more about file sharing for your group, please visit:
https://help.yahoo.com/kb/index?page=content&y=PROD_GRPS&locale=en_US&id=SLN15398

Regards,

c_day_nz <zl1cvd@...>

# 1887. New file uploaded to hp8924

Yahoo group: hp8924
Date: 2014-07-14 05:59:02 UTC
From: hp8924@yahoogroups.com
Topic: 31  Message: 1887

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hp8924
group.

File : /CaPCL-Win32.zip
Uploaded by : c_day_nz <zl1cvd@...>
Description : Screen Capture for 32-bit Windows by zl1cvd - works with 8920, 8922, 8924, E8285, 8935, Etc

You can access this file at the URL:
https://groups.yahoo.com/neo/groups/hp8924/files/CaPCL-Win32.zip

To learn more about file sharing for your group, please visit:
https://help.yahoo.com/kb/index?page=content&y=PROD_GRPS&locale=en_US&id=SLN15398

Regards,

c_day_nz <zl1cvd@...>

# 1888. New file uploaded to hp8924

Yahoo group: hp8924
Date: 2014-07-14 05:59:22 UTC
From: hp8924@yahoogroups.com
Topic: 31  Message: 1888

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hp8924
group.

File : /CaPCL-Win64.zip
Uploaded by : c_day_nz <zl1cvd@...>
Description : Screen Capture for 64-bit Windows by zl1cvd - works with 8920, 8922, 8924, E8285, 8935, Etc

You can access this file at the URL:
https://groups.yahoo.com/neo/groups/hp8924/files/CaPCL-Win64.zip

To learn more about file sharing for your group, please visit:
https://help.yahoo.com/kb/index?page=content&y=PROD_GRPS&locale=en_US&id=SLN15398

Regards,

c_day_nz <zl1cvd@...>

# 1889. GBS8200/HD9800 "No Signal"

Yahoo group: hp8924
Date: 2014-07-17 17:28:14 UTC
From: rbarrioss@...
Topic: 1889  Message: 1889

Hi all,

I've finally found some time to put together the LM1881 sync separator just to find I am unable to make the GBS8200 (marked as HD9800) work. I followed the great information found around here and this is what I can see:

* Using only pin1 of LM1881 to Sync on P3 (EGA input)

* The sync pulses are almost 5Vpp, 59.1uS high and 4.9us low (15.6kHz)

* Video signal is only around 1Vpp, connected to G input on P3

* Selecting "RGBS" input and using the lower button for the "AUTO" setting. The LED on the PCB flashes a few times and then "No Signal" on the monitor

I am tired and mad right now, don't know what else to check or try.

Your hints or ideas are wellcome.

Thank you,
Roberto EB4EQA

# 1890. Possibly dumb question re: IBASIC commands for the HP-8920 and HP-8922

Yahoo group: hp8924
Date: 2014-07-17 17:42:45 UTC
From: Brad Thompson
Topic: 1890  Message: 1890

Hello--

Pardon me for asking what's likely a dumb question, but I can't figure out whether a programmer's manual for IBASIC written for the HP-8920 would be relevant for the HP-8922. My hunch is that most common commands would be the same, but beyond that I have no idea what specialized commands would differ.

Thanks, and 73--

Brad AA1IP

---
This email is free from viruses and malware because avast! Antivirus protection is active.
http://www.avast.com

# 1891. Re: [hp8924] GBS8200/HD9800 "No Signal"

Yahoo group: hp8924
Date: 2014-07-17 17:53:32 UTC
From: Ralph S. Turk
Topic: 1889  Message: 1891

Your sync is way to high. needs to be about 0.3 volt or so. 5 volts of sync is shut off the video amp.
Ralph, W7HSG

----- Original Message -----

From: "hp8924" <hp8924@yahoogroups.com>
To: "hp8924" <hp8924@...m>
Sent: Thursday, July 17, 2014 10:28:14 AM
Subject: [hp8924] GBS8200/HD9800 "No Signal"

Hi all,

I've finally found some time to put together the LM1881 sync separator just to find I am unable to make the GBS8200 (marked as HD9800) work. I followed the great information found around here and this is what I can see:

* Using only pin1 of LM1881 to Sync on P3 (EGA input)

* The sync pulses are almost 5Vpp, 59.1uS high and 4.9us low (15.6kHz)

* Video signal is only around 1Vpp, connected to G input on P3

* Selecting "RGBS" input and using the lower button for the "AUTO" setting. The LED on the PCB flashes a few times and then "No Signal" on the monitor

I am tired and mad right now, don't know what else to check or try.

Your hints or ideas are wellcome.

Thank you,

Roberto EB4EQA

# 1892. Re: [hp8924] Possibly dumb question re: IBASIC commands for the HP-8920 and HP-8922

Yahoo group: hp8924
Date: 2014-07-17 18:06:18 UTC
From: Robert Atkinson
Topic: 1890  Message: 1892

Hi Brad,
The IBasic controller is the same for both instruments so the 8920 manual will have some relevance to the 8922. The 8922M  User guide has programming information see www.home.agilent.com/upload/cmc_upload/All/08922_90211.pdf

HTH,
Robert G8RPI.

---
From: "Brad Thompson brad.thompson@... [hp8924]" <hp8924@...m>
To: hp8924@yahoogroups.com
Sent: Thursday, 17 July 2014, 18:42
Subject: [hp8924] Possibly dumb question re: IBASIC commands for the HP-8920 and HP-8922

Hello--

Pardon me for asking what's likely a dumb question, but I can't
figure out whether a programmer's manual for IBASIC written for
the HP-8920 would be relevant for the HP-8922. My hunch is that
most common commands would be the same, but beyond that
I have no idea what specialized commands would differ.

Thanks, and 73--

Brad AA1IP

---
This email is free from viruses and malware because avast! Antivirus protection is active.
http://www.avast.com

# 1893. Re: [hp8924] GBS8200/HD9800 "No Signal"

Yahoo group: hp8924
Date: 2014-07-17 20:17:22 UTC
From: rbarrioss@...
Topic: 1889  Message: 1893

Hi Ralph,

True, even the datasheet says that (I'm embarrased). No doubt this LM1881 is somehow misbehaving. The sync output voltage follows VCC, up to 12V...

The converter is not dead (yet), it works find with a VGA source. I will order another (few) LM1881 and try again...

Thank you, it looks so simple now that you said what it was...

Roberto EB4EQA

# 1894. Re: [hp8924] GBS8200/HD9800 "No Signal"

Yahoo group: hp8924
Date: 2014-07-17 21:12:19 UTC
From: Ralph S. Turk
Topic: 1889  Message: 1894

Roberto
Don't feel bad. I worked in TV broadcasting for 35 years (retired 10) and I had to think about your problem. I don't have the 8200/9800. I was able to use a multi sync monitor. I then gave both to my son in Montana.
Good luck
Ralph

----- Original Message -----

From: "hp8924" <hp8924@yahoogroups.com>
To: "hp8924" <hp8924@yahoogroups.com>
Sent: Thursday, July 17, 2014 1:17:22 PM
Subject: Re: [hp8924] GBS8200/HD9800 "No Signal"

Hi Ralph,

True, even the datasheet says that (I'm embarrased). No doubt this LM1881 is somehow misbehaving. The sync output voltage follows VCC, up to 12V...

The converter is not dead (yet), it works find with a VGA source. I will order another (few) LM1881 and try again...

Thank you, it looks so simple now that you said what it was...

Roberto EB4EQA

# 1895. HP 8934 Modules Available

Yahoo group: hp8924
Date: 2014-07-26 14:14:19 UTC
From: Frederick Bray
Topic: 1895  Message: 1895

Sometime ago, I upgraded my HP8934 by replacing the standard reference module with a high stability module and the receiver with the narrower version. They could be used as working spares or for experimentation.

Since I am doing some cleaning out, I will happily part with the old modules for $10 each or $15 for both, plus shipping. They both should fit into a medium Priority Mail box.

I will take PayPal.

Please contact me off-line if interested.

Fred Bray
KE6CD

# 1896. Re: [hp8924] HP 8934 Modules Available

Yahoo group: hp8924
Date: 2014-07-26 14:17:20 UTC
From: Frederick Bray
Topic: 1895  Message: 1896

I should have made it clearer that the modules available are the original standard reference and the wider receiver.

On 7/26/2014 7:14 AM, Frederick Bray fwbray@... [hp8924] wrote:
> Sometime ago, I upgraded my HP8934 by replacing the standard reference
> module with a high stability module and the receiver with the narrower
> version. They could be used as working spares or for experimentation.
>
> Since I am doing some cleaning out, I will happily part with the old
> modules for $10 each or $15 for both, plus shipping. They both should
> fit into a medium Priority Mail box.
>
> I will take PayPal.
>
> Please contact me off-line if interested.
>
> Fred Bray
> KE6CD
>
>

# 1897. Question regarding power detector accuracy on HP8935

Yahoo group: hp8924
Date: 2014-08-02 23:16:58 UTC
From: george@...
Topic: 1897  Message: 1897

I have an 8935 that I bought two weeks after a calibration. Never pumped a HF radio into it, always VHF/UHF but last night I put a HF rig into it and was about to start troubleshooting the output filter because this 100watt radio showed 18 watts into the 8935 on the 3.8 mhz range. This should have been a 100 watt carrier. For some reason (it was there) I put it on my IFR. It read 100 watts. So did the comparison on several of the hf ham bands. At 7 mhz it was 100 watts on the IFR, 30 watts on the HP8935, at 10 mhz it was about right, but then from there up to 30 mhz the HP 8935 read higher than the IFR. By a boatload. IFR 100watts at 28 mhz, HP 8935 read 271 watts, and gave a high level alarm.

Put it thru the built in RF module diagnostics, etc. Other than showing slightly out of tolerance at 1.7 and 1.8 ghz (under 1%)

So the question is: since these were really intended for land mobile and cellular service is the accuracy in the HF range that I noticed normal?

Thanks

GeorgeC
W2DB

# 1898. Re: [hp8924] Question regarding power detector accuracy on HP8935

Yahoo group: hp8924
Date: 2014-08-03 00:02:23 UTC
From: Glenn Little
Topic: 1897  Message: 1898

Where did you get a radio that transmitted that low in frequency?
A lot of the cellular system service monitors roll off below 10MHz.
With you trying to measure power at 30 mhz, this
is wayyy below what would be the expected calibration lower limit.
I am surprised that it read anything in the sub
audio range as indicated by mhz.

The 8922 will measure some what correctly down to
10 MHz, then it falls off very rapidly.

73
Glenn
WB4UIV

At 07:16 PM 8/2/2014, you wrote:

>I have an 8935 that I bought two weeks after a
>calibration. Never pumped a HF radio into it,
>always VHF/UHF but last night I put a HF rig
>into it and was about to start troubleshooting
>the output filter because this 100watt radio
>showed 18 watts into the 8935 on the 3.8 mhz
>range. This should have been a 100 watt carrier.
>For some reason (it was there) I put it on my
>IFR. It read 100 watts. So did the comparison on
>several of the hf ham bands. At 7 mhz it was 100
>watts on the IFR, 30 watts on the HP8935, at 10
>mhz it was about right, but then from there up
>to 30 mhz the HP 8935 read higher than the IFR.
>By a boatload. IFR 100watts at 28 mhz, HP 8935
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>So the question is: since these were really
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>the accuracy in the HF range that I noticed normal?
>
>
>Thanks
>
>
>GeorgeC

>
>W2DB
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>
>
>
>

# 1899. Re: [hp8924] Question regarding power detector accuracy on HP8935

Yahoo group: hp8924
Date: 2014-08-03 05:41:58 UTC
From: keith
Topic: 1899  Message: 1899

A reply like this is of no value what so ever. I am sure you know full well what George means.
Keith

From: mailto:hp8924@yahoogroups.com
Sent: Sunday, August 03, 2014 12:02 PM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Question regarding power detector accuracy on HP8935

Where did you get a radio that transmitted that low in frequency?
A lot of the cellular system service monitors roll off below 10MHz.
With you trying to measure power at 30 mhz, this
is wayyy below what would be the expected calibration lower limit.
I am surprised that it read anything in the sub
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>
>Thanks
>
>
>GeorgeC
>
>W2DB
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>
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>
>

# 1900. Re: [hp8924] Question regarding power detector accuracy on HP8935

Yahoo group: hp8924
Date: 2014-08-03 07:16:00 UTC
From: Robert Atkinson
Topic: 1897  Message: 1900

Hi George,
The 8935 and most 8924's use a PIN diode switched input attenuator, rather than the relays used on (most) 8920s. Pins have the advantage of not wearing out, but are a compromise for frequency range. PIN diodes need a DC bias viltage to switch them and therfore blocking capacitors to keep the DC in the correct places while letting the RF through. The small value of the capacitors used limits the low frequency accuracy of the 8924/35. The diodes themselves also have limitations. As these sets were intended mainly for VHF/UHF work, often high volume automated testing, this was considered acceptable and is in th specification. The CW power sensor path is particuarly poor in low frequency response. Using larger value capacitors will affect the high frequency accuracy due to increased inductance.
To avoid this, rather than a 100W modification, I use an external analogue wattmeter (Racal 9103) with a 20dB sample output for HF work with the 8924. You can eneter the external attenuation value into the test set so the sig gen etc readings are correct.

HTH,
Robert G8RPI

---
From: "george@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Sunday, 3 August 2014, 0:16
Subject: [hp8924] Question regarding power detector accuracy on HP8935

I have an 8935 that I bought two weeks after a calibration. Never pumped a HF radio into it, always VHF/UHF but last night I put a HF rig into it and was about to start troubleshooting the output filter because this 100watt radio showed 18 watts into the 8935 on the 3.8 mhz range. This should have been a 100 watt carrier. For some reason (it was there) I put it on my IFR. It read 100 watts. So did the comparison on several of the hf ham bands. At 7 mhz it was 100 watts on the IFR, 30 watts on the HP8935, at 10 mhz it was about right, but then from there up to 30 mhz the HP 8935 read higher than the IFR. By a boatload. IFR 100watts at 28 mhz, HP 8935 read 271 watts, and gave a high level alarm.

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So the question is: since these were really intended for land mobile and cellular service is the accuracy in the HF range that I noticed normal?

Thanks

GeorgeC
W2DB

# 1901. Re: [hp8924] Question regarding power detector accuracy on HP8935

Yahoo group: hp8924
Date: 2014-08-03 16:16:10 UTC
From: george@...
Topic: 1897  Message: 1901

Thanks, Robert. That confirms what I suspected. I had never tried to make any serious measurements on anything under 144 mhz since I had it. On a UHF portable it agreed with the IFR and BIRD. Haven't tried high band yet, I'll presume it is ok.

The radio was a departure from my usual Micom mania, this was a Transworld/Datron TW-100.

73, etc

GeorgeC
W2DB

# 1902. Re: [hp8924] Question regarding power detector accuracy on HP8935

Yahoo group: hp8924
Date: 2014-08-03 16:18:35 UTC
From: george@...
Topic: 1899  Message: 1902

Thanks, Keith. I was amused by that response. Robert filled in the blanks for me, and it was pretty much as expected.

GeorgeC
W2DB

# 1903. Re: HP 8920A

Yahoo group: hp8924
Date: 2014-08-06 22:01:59 UTC
From: py8elo@...
Topic: 1061  Message: 1903

Boa noite Gabriel,
eu estou com o equiipamento embalado desde aquela época e só agora consegui um portador para lhe enviar.
Por favor, me passa p teu endereço.

Atenciosamente,

Silva.

# 1904. Re: HP 8920A

Yahoo group: hp8924
Date: 2014-08-08 23:37:53 UTC
From: jyelmgren@...
Topic: 1061  Message: 1904

I would run through the extended RF Tests, Audio Tests and Misc Tests.

Some of the tests require an external loopback cable.

These will isolate the issue and usually identify a defective card ( though sometimes they are not correct )

Tests are built into the firmware and are accessed from the TEST button/screen and selecting the ROM as the source and then browsing down on the bottom left corner to select the test.

AMTRONIX website should have a better description on the process.

# 1905. Re: HP 8920A

Yahoo group: hp8924
Date: 2014-08-08 23:58:04 UTC
From: jyelmgren@...
Topic: 1061  Message: 1905

HP 8920A 8920B 8921A Diagnostics http://www.amtronix.com/diagnostic.htm

http://www.amtronix.com/diagnostic.htm

HP 8920A 8920B 8921A Diagnostics http://www.amtronix.com/diagnostic.htm Amtronix Instruments, Inc. The instructions below allow you to run the built in diagnostic program in your HP8920A, HP8920B, HP8921A, 8924...

View on www.amtronix.com http://www.amtronix.com/diagnostic.htm
Preview by Yahoo

# 1906. Re: HP 8920A

Yahoo group: hp8924
Date: 2014-08-09 23:19:05 UTC
From: farson@...
Topic: 1061  Message: 1906

As it happens, the 8935 also has a full set of diagnostics in its internal SERV4 menu. This is resident in the test set.

73, Adam VA7OJ/AB4OJ

# 1907. Using the 8935 to test cross-band repeater mode in dual-band amateur FM transceivers

Yahoo group: hp8924
Date: 2014-08-09 23:43:27 UTC
From: farson@...
Topic: 1907  Message: 1907

I have just complketed a test suite on the new Icom ID-5100. To test cross-band repeater operation, I set up the MAIN and SUB bands on 2m and 70cm FM respectively. LOW power output (5W) was selected to avoid overheating. Next, I activated the Repeater mode on the ID-5100 via menu.

I configured the 8935 with RF GENERATOR on 2m, output via RF OUT, FM with 3 kHz deviation and SINAD scale. RF ANALYZER was set up on 70cm, with input via RF IN and SINAD scale.

The ID-9100 antenna socket was connected to RF IN/OUT on the 8935. I increased the RF Generator output sufficiently to key the radio, adjusted the RF input level for > 12 dB SINAD on 70cn and read off transmitter power output and deviation (from which I calculated the deviation ratio, 3 /deviation displayed on RF Analyzer).

The ease with which these HP test sets can be configured for duplex with separate or combined RF input and output greatly facilitates repeater testing,

73, Adam VA7OJ/AB4OJ

# 1908. 8924 EEPROM

Yahoo group: hp8924
Date: 2014-09-10 22:35:43 UTC
From: zl1cvd@...
Topic: 1908  Message: 1908

I am trying to create a set of EEPROMs for 8924 to hold RF Tools. Does anyone have any idea how I go about converting a single file image to a set of EEPROM images? Can anyone help point me in the right direction of what to google for? I recall something about odd and even or ho / lo but have no idea where to look next. 73s de chris zl1cvd

# 1909. Re: [hp8924] 8924 EEPROM

Yahoo group: hp8924
Date: 2014-09-11 01:41:30 UTC
From: keith
Topic: 1908  Message: 1909

I am note quite sure what you are asking. I thought you might be referring to storing 16 bit addresses in Hi order-Lo order bytes in an 8 bit memory location.
This site might help. http://www.doc.ic.ac.uk/~eedwards/compsys/memory/

73’s
keith

From: mailto:hp8924@yahoogroups.com
Sent: Thursday, September 11, 2014 10:35 AM
To: hp8924@yahoogroups.com
Subject: [hp8924] 8924 EEPROM

I am trying to create a set of EEPROMs for 8924 to hold RF Tools. Does anyone have any idea how I go about converting a single file image to a set of EEPROM images? Can anyone help point me in the right direction of what to google for? I recall something about odd and even or ho / lo but have no idea where to look next. 73s de chris zl1cvd

# 1910. Re: 8924 EEPROM

Yahoo group: hp8924
Date: 2014-09-11 07:41:57 UTC
From: robert8rpi@...
Topic: 1908  Message: 1910

Hi, I guess it depends on what you are going to do with the eeproms. Are you intending to put them into spare ROM sockets internally or something else? I can still do PCMCIA cards with RF Tools for 40 UK pounds.

Robert G8RPI

# 1911. Re: [hp8924] 8924 EEPROM

Yahoo group: hp8924
Date: 2014-09-11 08:04:06 UTC
From: zl1cvd@...
Topic: 1908 Message: 1911

Sorry I have not been very clear. This is what I know. The firmware in the 8920/8921, 8924, 8935 & E8285A analyzers use pSOS a RTOS for the 6800 by Software Components Group. All analyzers share similar user interface and features +/- features required for specific hardware. All models support HP's iBasic. Most of the internal calibration and test routines are iBasic programs. If you edit the firmware upgrade images in the 8924 yahoo group, you can see these basic programs.
HP released an add-on suite of iBasic applications called RF Tools for 8920 & 8921 - tools that were already included in the firmware of the 8935. With a few changes, the programs also run on the 8924 & E8285A. They were shipped in a DOS formatted PCMCIA Memory Card.
The 8924 has a memory card 08920-60194 (similar to 08920-60297) which holds RTC, RAM, EPROM, PCMCIA. There are 8 sockets for option ROM being I believe AM27C040-120JC 512Kx8-bit PLCC. Basically I want to put RF Tools into EEPROMS on the memory card but have no idea how to go about it. I can read/write PCMCIA data and have an EEPROM programmer. Any ideas for the next step? I am electrically & RF competent but hate bit banging and have trouble understanding uPs, addressing, etc.

# 1912. Re: 8924 EEPROM

Yahoo group: hp8924
Date: 2014-09-11 08:07:33 UTC
From: zl1cvd@...
Topic: 1908  Message: 1912

Hi Robert. Yes, I can bang out PCMCIA cards too but want to put the data into the 8 spare ROM sockets on 08920-60194 to free up the PCMCIA slot. I basically want the same as 8935 series offers as standard. Cheers, Chris ZL1CVD.

# 1913. Repost - HP 8924C Available

Yahoo group: hp8924
Date: 2014-09-18 06:54:50 UTC
From: wb6dgn_tom@...
Topic: 1913  Message: 1913

I have a very nice 8924C, recent (but expired) calibration but everything works as it should and frequency within a couple cycles of my Z-3801 GPSDO. Assume all other parameters are also still within spec. being its HP.
Display is excellent, no burns and good brightness (goes higher than needed), but brightness pot. has never been changed (hasn't needed it so far).
This unit has the factory 100 watt continuous load, good off-air receiver sensitivity, very clean and all original feet in pretty good condition. Unit was last calibrated by Amtronix 11/2010, has sticker and that certificate along with the full printout that he sends with the calibration.
Right now I'm looking for best reasonable offer but, if interested, call me and we can arrive at a mutually agreeable price. Also, if any addl. information is wanted, feel free to call or email Would MUCH prefer local pickup if possible but still have the box with foam-in-place packaging though its had three trips on it (original purchase and to/from Amtronix). Email is wb6dgn_tom <at> a t t <dot> net (don't forget to take spaces out of a t t). Email for phone number in Norton, Ohio. Thanks for looking.
Tom WB6DGN (all info. good on QRZ)

# 1914. Video out to VGA adapter

Yahoo group: hp8924
Date: 2014-09-25 20:31:37 UTC
From: w9dkc@...
Topic: 1914  Message: 1914

Anyone got one that works for sale? I bought the parts 8 months ago and have yet to find time to make it. I am ready to just buy one.

# 1915. Re: [hp8924] Video out to VGA adapter

Yahoo group: hp8924
Date: 2014-09-25 21:21:19 UTC
From: wb7dmx@att.net
Topic: 1914  Message: 1915
Attachments: 1 described; binary payloads are missing from this source WARC

Is Christmas Florida too far for you to come ?

-------Original Message-------

From: w9dkc@... [hp8924]
Date: 9/25/2014 4:31:41 PM
To: hp8924@yahoogroups.com
Subject: [hp8924] Video out to VGA adapter

Anyone got one that works for sale? I bought the parts 8 months ago and have yet to find time to make it. I am ready to just buy one.

# 1916. Programming Agilent 8920A with RF

Yahoo group: hp8924
Date: 2014-09-25 21:25:18 UTC
From: mhchaplin43@...
Topic: 1916  Message: 1916

I have a late model Agilent 8920A along with an Agilent 82357B USB/GPIB interface. Computer is IBM Thinkpad laptop running XP. Connection between the the 8920 and computer using Agilent software with this setup is great. I purchased a PCMCIA card so I could run RF tools and learned the hard way that the 8920A does not have a PCMCIA slot. I then joined this group and downloaded from the files section the RF Tools software. I have read through all the posts in this group and see many ambiguous threads about using the HP Drive software to upload RF Tools. But I am getting old, don't know a lot about computer programming (at any level) and am not able to figure out how to do it. Could someone who understands how to do this and who has actually done it send me the specific steps (a prescription) in programming both the computer and the 8920A. Thanks - any help will be greatly appreciated.

# 1917. Re: [hp8924] Video out to VGA adapter

Yahoo group: hp8924
Date: 2014-09-25 22:31:49 UTC
From: wb7dmx@att.net
Topic: 1914  Message: 1917
Attachments: 1 described; binary payloads are missing from this source WARC

how about this, you send me the parts and I will build it for you for free,
just pay the postage.
Bob wb7dmx

-------Original Message-------

From: w9dkc@... [hp8924]
Date: 9/25/2014 4:31:41 PM
To: hp8924@yahoogroups.com
Subject: [hp8924] Video out to VGA adapter

Anyone got one that works for sale? I bought the parts 8 months ago and have
yet to find time to make it. I am ready to just buy one.

# 1918. Re: [hp8924] Programming Agilent 8920A with RF

Yahoo group: hp8924
Date: 2014-09-26 06:37:52 UTC
From: Robert Atkinson
Topic: 1916  Message: 1918

Hi,
I can't send specific steps as I don't have the same hardware as you (no 8920A), but "programming" should not be rquired. If you install HPdrive 3.01 it should emulate a standard drive. The only possible issue is support for your USB GPIB I/F. Type hpdrive <imagefile> ( <imagefile> is the name of file you want to access) and then follow the 8920A instructions for using an external disk drive. Make sure you back-up any RF-tools files incase something goes wrong. Once the file is loaded on the 8920A you can disconnect the PC if you want to go portable. If you want to access multiple files you can follow the HPdrive instructions to set up as a hard disk drive, I suggest a 9133B or 9134B. see progamming guide http://www.keysight.com/main/redirector.jspx?action=ref&cname=EDITORIAL&ckey=1000001086%3Aepsg%3Aman&lc=eng&cc=US&nfr=-536900808.536880153.00 chapter 6 on how to use an external drive. Oh and use the RFTools files modified for the 8920x

HTH,
Robert G8RPI

From: "mhchaplin43@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Thursday, 25 September 2014, 22:25
Subject: [hp8924] Programming Agilent 8920A with RF

I have a late model Agilent 8920A along with an Agilent 82357B USB/GPIB interface. Computer is IBM Thinkpad laptop running XP. Connection between the the 8920 and computer using Agilent software with this setup is great. I purchased a PCMCIA card so I could run RF tools and learned the hard way that the 8920A does not have a PCMCIA slot. I then joined this group and downloaded from the files section the RF Tools software. I have read through all the posts in this group and see many ambiguous threads about using the HP Drive software to upload RF Tools. But I am getting old, don't know a lot about computer programming (at any level) and am not able to figure out how to do it. Could someone who understands how to do this and who has actually done it send me the specific steps (a prescription) in programming both the computer and the 8920A. Thanks - any help will be greatly appreciated.

# 1919. Reference Levels

Yahoo group: hp8924
Date: 2014-09-28 03:19:25 UTC
From: tomasguerro@...
Topic: 1919  Message: 1919

I am still trying to learn the 8924C and making progress. At question today is the ref. lvl at the bottom of a spec analyzer screen as well as the signal level below the frequency at the top-right of the spec analyzer screen.

The reference level goes +/- 50dB. But what does it do? I generally try tuning a repeater using 0dB but I see more grunge as I bring it up to -50dB as if amplified. What is it doing?

Lastly, what does the signal strength mean? It appears coordinated with the ref. level.

Thank you in advance.

# 1920. Re: [hp8924] Reference Levels

Yahoo group: hp8924
Date: 2014-09-28 04:06:19 UTC
From: Ralph Mowery
Topic: 1919  Message: 1920

I think the scope screen has 8 devisions. That is good for 80 db. When the refference is at 0 db that is the top of the screen. As you go down from there each devision is 10 db. That means the bottom of the screen starts off at 80 db below a 1 milliiwatt signal. That is not very sensitive. when you crank in a referance of -50 db that makes the screen start at -80 + another -50 or -130 dbm. That is really below the basic sensitivity of the spectrum analizer receiver. Don't recall, but think the best the receiver will do is about -110 dbm. That is why the 'grass' will come up a devision or two on the screen.

What you are seeing with 0 db as the referance level is only -80 dbm. Not much thermal noise there. Think of it as a receiver with a large atteunator of about 40 db at the antenna connection. You will not hear very much. As you lower the value of the atteunator you will start to heat the thermal noise. This is why you start to see more grunge.

Put a short antenna on it if you are close to one of the Weather stations near 160 MHz. Set the refferance to -50 db and look at the signal, then as you go to -40, -30,-20 and such you will see the signal get shorter on the screen. If you set the bandwidth small enough you will be able to hear the station. At some point the signal will go off the bottom of the screen. You can also get the same effect if you put a handy talkey on low power a couple of feet away from the 8024c with a short antenna on the 8924c.

On Saturday, September 27, 2014 11:23 PM, "tomasguerro@... [hp8924]" <hp8924@yahoogroups.com> wrote:

>
>
>
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>
>I am still trying to learn the 8924C and making progress. At question today is the ref. lvl at the bottom of a spec analyzer screen as well as the signal level below the frequency at the top-right of the spec analyzer screen.
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>
>Thank you in advance.
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# 1921. Re: [hp8924] Reference Levels

Yahoo group: hp8924
Date: 2014-09-28 19:55:33 UTC
From: tomasguerro@...
Topic: 1919  Message: 1921

Thank you for an excellent start!

But now then, the level shown at the top-right in dBm seems to read like -70dBm much of the time at my repeater site. As I adjust the reference level this changes. Understanding that it is a "reference" level suggests that it is somewhat arbitrary.

More to the point do I add/subtract this number from the -70dBm to get a real sensitivity or noise floor? I'm having a hell of a time on our site using a Motorola repeater and dual band pass cavities. Grunge is getting through but more importantly I don't know how to evaluate what I am seeing for the noise floor.

As such do I want to set the reference level for 0 (zero) or -xdBm and add/subtract?

Thank you for your help. I'm trying to learn so much and I am finally getting the hang of the 8924c.

# 1922. Re: [hp8924] Reference Levels

Yahoo group: hp8924
Date: 2014-09-28 21:16:16 UTC
From: Ralph Mowery
Topic: 1919 Message: 1922

The 8924c is not difficult to learn,but it does so much it takes lots of time. If you don't know it, the manual for it is mostly for cell phone use. However if you download the one for the 8920 it is almost the same but more for two way use. I played with one several hours a week for about 6 months before I got a good handle on much of what it would do. This is just a hobby for me as I do not work in communications for a living.

To measure the noise floor , try this.

Main screen.
1. set input to ant
2. center to frequency youwant
3. ref lev -50 dbm not that you want to, but you can change this to uVolts
4. span as desired probably less than 10 MHz or 5 MHz

RG GEN screen

1 Amplitude OFF to do so, highlight it with a press of the round knob. Press the on/off button on the keypad. Once for off and again for on when you want to turn it back on, but not now, you want it to show OFF.

AUX

1 AVG to 1 or more to smooth out the display. This is an average of how many sweeps the scope makes to give a value.
2 sensitivity Normal and 10db/div HIgh sensitivity gives about 10 db more gain, but it will be uncalibrated
3 normalize A only

Upper right of screen will have that level going from about -110 to -120 DB. This is the noise from the 8924 if no antenna is connected. You can not see anything below this signal level. You can use the AVG as above to smooth this out. This is where you read the noise floor when you connect an antenna to the 8924. It will be the level of the frequency where the marker is. You can go to the marker screen and move it where you want it to show the level.

The number you see will be where the marker pip is on the screen. It will be the -50 and the number of devisions from the top of the screen. If it is showing -100 then that is the -50 and then 5 devisioins down from the top. If you go back to the MAIN and set it to -40 the number will still show -100 db but the trace onthe screen will be moved 1 devision down. That is because the top of the screen is now -40 so you have to have - 60 to give you the -100 db as the signal level has not changed. Sort of like an old multimeter, if you dont change the input voltage, but change the range, the position of the meter needle will change.

Now plug in the antenna and see if the trace comes up some. If it does, you can read the noise floor. If it does not, and you can see some signals popping up on the screen you have a quiet location.

I think you may be seeing around 80 db as you may not have not turned off the signal generator part of the tracking generator.
Cut it off as described above and you should see the number go up (down if you count the larger negative term as going down) and the trace on the screen go down.

If you have any more questions, I will try to answer them for you.

If you have a General class ham license or higher I can meet you on the low bands and talk you through some of this.

73 de KU4PT

On Sunday, September 28, 2014 4:02 PM, "tomasguerro@... [hp8924]" <hp8924@yahoogroups.com> wrote:

>
>
>
>
>
>Thank you for an excellent start!
>
>But now then, the level shown at the top-right in dBm seems to read like -70dBm much of the time at my repeater site. As I adjust the reference level this changes. Understanding that it is a "reference" level suggests that it is somewhat arbitrary.
>
>More to the point do I add/subtract this number from the -70dBm to get a real sensitivity or noise floor? I'm having a hell of a time on our site using a Motorola repeater and dual band pass cavities. Grunge is getting through but more importantly I don't know how to evaluate what I am seeing for the noise floor.
>
>As such do I want to set the reference level for 0 (zero) or -xdBm and add/subtract?
>
>Thank you for your help. I'm trying to learn so much and I am finally getting the hang of the 8924c.
>
>
>
>
>

# 1923. Re: [hp8924] Reference Levels

Yahoo group: hp8924
Date: 2014-09-29 00:02:06 UTC
From: wb4yjt@...
Topic: 1919  Message: 1923

You can lower the instrument's noise floor by selecting a narrower span, which will automatically select a narrower Resolution Bandwidth.

At spans less than 50 KHz, the RBW is 300 Hz
From 50 KHz to less than 200 KHz, the RBW is 1 Khz.
From 200 KHz to less than 1.5 MHz, the RBW is 3 KHz.
From 1.5 MHz to less than 18 MHz, the RBW is 30 KHz.

This is from the 8920 Assy Level Repair manual.
John K.
==========

# 1924. Re: [hp8924] Reference Levels

Yahoo group: hp8924
Date: 2014-09-29 02:44:51 UTC
From: tomasguerro@...
Topic: 1919  Message: 1924

Thank you for the step-by-step! But I noticed that you didn't mention the use of a T. I made an Iso-T by using a Dremel and drilling out the pin of a F/F/F N T-connector.

# 1925. Re: [hp8924] Reference Levels

Yahoo group: hp8924
Date: 2014-09-29 03:02:58 UTC
From: Ralph Mowery
Topic: 1919  Message: 1925

I may have misunderstood the question. I thought you wanted to measure how much noise there was at a repeater site from other transmitters and such. That would just mean hooking the antenna on the tower you are using to the ANT in put on the 8924c.

Using the Iso-T would make things look 30 to 60 db better which would mean almost no site noise would show up at all.

Most of the time the iso-t is used to send a signal into the transmission line to the receiver while the transmitter is on.

On Sunday, September 28, 2014 10:44 PM, "tomasguerro@... [hp8924]" <hp8924@yahoogroups.com> wrote:

>
>
>
>
>
>Thank you for the step-by-step! But I noticed that you didn't mention the use of a T. I made an Iso-T by using a Dremel and drilling out the pin of a F/F/F N T-connector.
>
>
>
>
>

# 1926. Re: [hp8924] Reference Levels

Yahoo group: hp8924
Date: 2014-09-29 04:05:58 UTC
From: tomasguerro@...
Topic: 1919  Message: 1926

I have plugged the N connector directly into the 8924 and have seen all of the trees in the grass! But I didn't know what the rel. level meant or the top-right level. So you've still done well by me! I need to run a complete site noise test as well which I recall uses an Iso-T where the antenna is on one end and the RX on the other end past the duplexer and any other filters like my dual band pass cavities. They sure are sweet. One minute trees around me and the next, the lawn has been mowed! Chip Angle of Angle Linear http:anglelinear.com is a great guy and knows his stuff.

# 1927. Re: [hp8924] Programming Agilent 8920A with RF

Yahoo group: hp8924
Date: 2014-10-03 15:35:36 UTC
From: mhchaplin43@...
Topic: 1916  Message: 1927

Thanks for your help Robert. I now have HP Drive working with a National Instruments PCI based GPIB card. Two more questions - HP drive wants to work with an HP based image file with the suffix .hpi. In the files section there is an RF Tools based bin file. Is this the file that you were referencing in your earlier post and is this an HP image file? Also what is the source of the 8920x modified file?

Regards

Mike
NC7Q

---In hp8924@yahoogroups.com, <robert8rpi@...> wrote :

Hi,
I can't send specific steps as I don't have the same hardware as you (no 8920A), but "programming" should not be rquired. If you install HPdrive 3.01 it should emulate a standard drive. The only possible issue is support for your USB GPIB I/F. Type hpdrive <imagefile> ( <imagefile> is the name of file you want to access) and then follow the 8920A instructions for using an external disk drive. Make sure you back-up any RF-tools files incase something goes wrong. Once the file is loaded on the 8920A you can disconnect the PC if you want to go portable. If you want to access multiple files you can follow the HPdrive instructions to set up as a hard disk drive, I suggest a 9133B or 9134B. see progamming guide http://www.keysight.com/main/redirector.jspx?action=ref&cname=EDITORIAL&ckey=1000001086%3Aepsg%3Aman&lc=eng&cc=US&nfr=-536900808.536880153.00 http://www.keysight.com/main/redirector.jspx?action=ref&cname=EDITORIAL&ckey=1000001086%3Aepsg%3Aman&lc=eng&cc=US&nfr=-536900808.536880153.00 chapter 6 on how to use an external drive. Oh and use the RFTools files modified for the 8920x

HTH,
Robert G8RPI

From: "mhchaplin43@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Thursday, 25 September 2014, 22:25
Subject: [hp8924] Programming Agilent 8920A with RF

I have a late model Agilent 8920A along with an Agilent 82357B USB/GPIB interface. Computer is IBM Thinkpad laptop running XP. Connection between the the 8920 and computer using Agilent software with this setup is great. I purchased a PCMCIA card so I could run RF tools and learned the hard way that the 8920A does not have a PCMCIA slot. I then joined this group and downloaded from the files section the RF Tools software. I have read through all the posts in this group and see many ambiguous threads about using the HP Drive software to upload RF Tools. But I am getting old, don't know a lot about computer programming (at any level) and am not able to figure out how to do it. Could someone who understands how to do this and who has actually done it send me the specific steps (a prescription) in programming both the computer and the 8920A. Thanks - any help will be greatly appreciated.

# 1928. 8935 boot up problem

Yahoo group: hp8924
Date: 2014-10-16 19:12:25 UTC
From: bim.huck@...
Topic: 1928  Message: 1928

Turned on my 8935 the other day and it hung at the opening to the menu. Boot up screen OK.....passed all the self tests and then hung on the next screen.
Has anyone experienced this with their 8935 or 8924?

I'll post pictures of the 3 stages.

thanks for looking.....Jim

# 1929. Re: 8935 boot up problem

Yahoo group: hp8924
Date: 2014-10-17 09:44:51 UTC
From: zl1cvd@...
Topic: 1928  Message: 1929

E8285A is closer to 8935 series than 8924. Try its NVRAM reset procedure:
Turn off the E8285A if it isn't already off. Press and hold down the "7" and "Increment Set" keys. Turn the E8285A's power on. Continue to hold the "7" and "Increment Set" keys until the "One or more self tests failed. Error code: xxxx" is displayed at the top of the E8285A's display. To verify that the NV RAM was reset during power up, when the call control screen is displayed, press the "Message" key, there should be a message similar to this: "Battery backed RAM Initialized. Standard RAM not Maintained"There may be something similar & specific for 8935 but haven't the time to search now. Let us know how you get on.
73s de chris zl1cvd

# 1930. Re: 8935 boot up problem

Yahoo group: hp8924
Date: 2014-10-17 14:09:44 UTC
From: bim.huck@...
Topic: 1928  Message: 1930

Thanks for the info Chris.
The key sequence did not work on the 8935 but I spent time going through the PDF manuals on line and found a sequence for clearing the Test set RAM on the CDMA version

To clear the Test Set’s RAM:
1. Turn the Test Set off.
2. Hold the Code Dom and HZ/mV keys down.
3. Turn the power on (with the buttons still held down) and wait until the initial power-up screen is displayed.

I have the TDMA version and can't find the Code Dom key (maybe a brain freeze for me)

Anybody know the keys to hold on the TDMA version?

Thanks Jim

# 1931. rf gen off frequency 8924c

Yahoo group: hp8924
Date: 2014-11-12 19:38:33 UTC
From: eseacord@...
Topic: 1931  Message: 1931

I just discovered the output on my 8924c rf generator is about 3kc lower at 144.
The master oscillator(10mhz) is well within 1ppb but the out put frequency remains the same with using both internal and external time bases.
Manuals on order but I would like to be able to attack this before they arrive either the Saturday or Monday.
Thanks much
Rix Seacord
k2avp

# 1932. Re: [hp8924] rf gen off frequency 8924c

Yahoo group: hp8924
Date: 2014-11-12 20:01:48 UTC
From: Robert Atkinson
Topic: 1931  Message: 1932

Hi Rix,
You can download the manuals from the Keysight (Agilent HP) website.
First thing to check is has someone programmed an offset in the configuration screen.

Robert G8RPI.

---
From: "eseacord@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Wednesday, 12 November 2014, 19:38
Subject: [hp8924] rf gen off frequency 8924c

I just discovered the output on my 8924c rf generator is about 3kc lower at 144.
The master oscillator(10mhz) is well within 1ppb but the out put frequency remains the same with using both internal and external time bases.
Manuals on order but I would like to be able to attack this before they arrive either the Saturday or Monday.
Thanks much
Rix Seacord
k2avp

# 1933. Re: [hp8924] rf gen off frequency 8924c

Yahoo group: hp8924
Date: 2014-11-12 21:16:10 UTC
From: eseacord@...
Topic: 1931  Message: 1933

Robert
Thanks for the rapid reply.
From what I've seen, no offset is programmed in the config screen.
From what I recall no old manuals were available from HP and we had to generally rely on third party vendors. I'll give keysight a shot
thanks again
Rix k2avp

# 1934. Re: [hp8924] rf gen off frequency 8924c

Yahoo group: hp8924
Date: 2014-11-12 21:38:54 UTC
From: James H Vernetti
Topic: 1931  Message: 1934

you can go to the Agilent website and download all the manuals in PDF

----- Original Message -----

From: eseacord@... [hp8924]<mailto:eseacord@...%20[hp8924]>

To: hp8924@yahoogroups.com<mailto:hp8924@yahoogroups.com>

Sent: Wednesday, November 12, 2014 2:16 PM

Subject: Re: [hp8924] rf gen off frequency 8924c

Robert
Thanks for the rapid reply.
From what I've seen, no offset is programmed in the config screen.
From what I recall no old manuals were available from HP and we had to generally rely on third party vendors. I'll give keysight a shot
thanks again
Rix k2avp

#ygrp-mkp { BORDER-TOP: #d8d8d8 1px solid; FONT-FAMILY: Arial; BORDER-RIGHT: #d8d8d8 1px solid; BORDER-BOTTOM: #d8d8d8 1px solid; PADDING-BOTTOM: 0px; PADDING-TOP: 0px; PADDING-LEFT: 10px; MARGIN: 10px 0px; BORDER-LEFT: #d8d8d8 1px solid; PADDING-RIGHT: 10px } #ygrp-mkp HR { BORDER-TOP: #d8d8d8 1px solid; BORDER-RIGHT: #d8d8d8 1px solid; BORDER-BOTTOM: #d8d8d8 1px solid; BORDER-LEFT: #d8d8d8 1px solid } #ygrp-mkp #hd { FONT-SIZE: 85%; FONT-WEIGHT: 700; COLOR: #628c2a; MARGIN: 10px 0px; LINE-HEIGHT: 122% } #ygrp-mkp #ads { MARGIN-BOTTOM: 10px } #ygrp-mkp .ad { PADDING-BOTTOM: 0px; PADDING-TOP: 0px; PADDING-LEFT: 0px; PADDING-RIGHT: 0px } #ygrp-mkp .ad P { MARGIN: 0px } #ygrp-mkp .ad A { TEXT-DECORATION: none; COLOR: #0000ff } #ygrp-sponsor #ygrp-lc { FONT-FAMILY: Arial } #ygrp-sponsor #ygrp-lc #hd { FONT-SIZE: 78%; FONT-WEIGHT: 700; MARGIN: 10px 0px; LINE-HEIGHT: 122% } #ygrp-sponsor #ygrp-lc .ad { MARGIN-BOTTOM: 10px; PADDING-BOTTOM: 0px; PADDING-TOP: 0px; PADDING-LEFT: 0px; PADDING-RIGHT: 0px } #actions { FONT-SIZE: 11px; FONT-FAMILY: Verdana; PADDING-BOTTOM: 10px; PADDING-TOP: 10px; PADDING-LEFT: 0px; PADDING-RIGHT: 0px } #activity { FONT-SIZE: 10px; FONT-FAMILY: Verdana; FLOAT: left; PADDING-BOTTOM: 10px; PADDING-TOP: 10px; PADDING-LEFT: 10px; PADDING-RIGHT: 10px; BACKGROUND-COLOR: #e0ecee } #activity SPAN { FONT-WEIGHT: 700 } #activity SPAN:first-child { TEXT-TRANSFORM: uppercase } #activity SPAN A { TEXT-DECORATION: none; COLOR: #5085b6 } #activity SPAN SPAN { COLOR: #ff7900 } #activity SPAN .underline { TEXT-DECORATION: underline } .attach { FONT-SIZE: 12px; FONT-FAMILY: Arial; WIDTH: 400px; PADDING-BOTTOM: 10px; PADDING-TOP: 10px; PADDING-LEFT: 0px; CLEAR: both; DISPLAY: table; PADDING-RIGHT: 0px } .attach DIV A { TEXT-DECORATION: none } .attach IMG { BORDER-TOP: medium none; BORDER-RIGHT: medium none; BORDER-BOTTOM: medium none; BORDER-LEFT: medium none; PADDING-RIGHT: 5px } .attach LABEL { MARGIN-BOTTOM: 5px; DISPLAY: block } .attach LABEL A { TEXT-DECORATION: none } BLOCKQUOTE { MARGIN: 0px 0px 0px 4px } .bold { FONT-SIZE: 13px; FONT-FAMILY: Arial; FONT-WEIGHT: 700 } .bold A { TEXT-DECORATION: none } DD.last P A { FONT-FAMILY: Verdana; FONT-WEIGHT: 700 } DD.last P SPAN { FONT-FAMILY: Verdana; FONT-WEIGHT: 700; MARGIN-RIGHT: 10px } DD.last P SPAN.yshortcuts { MARGIN-RIGHT: 0px }

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DIV.attach-table DIV DIV A { TEXT-DECORATION: none } DIV.attach-table { WIDTH: 400px }
DIV.file-title A { TEXT-DECORATION: none } DIV.file-title A:active { TEXT-DECORATION: none
} DIV.file-title A:hover { TEXT-DECORATION: none } DIV.file-title A:visited {
TEXT-DECORATION: none } DIV.photo-title A { TEXT-DECORATION: none } DIV.photo-title
A:active { TEXT-DECORATION: none } DIV.photo-title A:hover { TEXT-DECORATION: none }
DIV.photo-title A:visited { TEXT-DECORATION: none } DIV#ygrp-mlmsg #ygrp-msg P A
SPAN.yshortcuts { FONT-SIZE: 10px; FONT-FAMILY: Verdana; FONT-WEIGHT: normal } .green {
COLOR: #628c2a } .MsoNormal { MARGIN: 0px } o { FONT-SIZE: 0px } #photos DIV { WIDTH: 72px;
FLOAT: left } #photos DIV DIV { OVERFLOW: hidden; BORDER-TOP: #666666 1px solid; HEIGHT:
62px; BORDER-RIGHT: #666666 1px solid; WIDTH: 62px; BORDER-BOTTOM: #666666 1px solid;
BORDER-LEFT: #666666 1px solid } #photos DIV LABEL { OVERFLOW: hidden; FONT-SIZE: 10px;
WIDTH: 64px; WHITE-SPACE: nowrap; COLOR: #666666; TEXT-ALIGN: center } #reco-category {
FONT-SIZE: 77% } #reco-desc { FONT-SIZE: 77% } .replbq { MARGIN: 4px } #ygrp-actbar DIV
A:first-child { PADDING-RIGHT: 5px; MARGIN-RIGHT: 2px } #ygrp-mlmsg { FONT: x-small Arial,
helvetica,clean, sans-serif } #ygrp-mlmsg TABLE { FONT-SIZE: 100%; FONT-VARIANT: normal;
FONT-WEIGHT: normal; FONT-STYLE: normal; LINE-HEIGHT: normal } #ygrp-mlmsg SELECT { FONT:
99% Arial, Helvetica, clean, sans-serif } INPUT { FONT: 99% Arial, Helvetica, clean,
sans-serif } TEXTAREA { FONT: 99% Arial, Helvetica, clean, sans-serif } #ygrp-mlmsg PRE {
FONT: 100% monospace } CODE { FONT: 100% monospace } #ygrp-mlmsg * { LINE-HEIGHT: 1.22em }
#ygrp-mlmsg #logo { PADDING-BOTTOM: 10px } #ygrp-msg P A { FONT-FAMILY: Verdana } #ygrp-msg
P#attach-count SPAN { FONT-WEIGHT: 700; COLOR: #1e66ae } #ygrp-reco #reco-head {
FONT-WEIGHT: 700; COLOR: #ff7900 } #ygrp-reco { MARGIN-BOTTOM: 20px; PADDING-BOTTOM: 0px;
PADDING-TOP: 0px; PADDING-LEFT: 0px; PADDING-RIGHT: 0px } #ygrp-sponsor #ov LI A {
FONT-SIZE: 130%; TEXT-DECORATION: none } #ygrp-sponsor #ov LI { LIST-STYLE-TYPE: square;
FONT-SIZE: 77%; PADDING-BOTTOM: 6px; PADDING-TOP: 6px; PADDING-LEFT: 0px; PADDING-RIGHT:
0px } #ygrp-sponsor #ov UL { PADDING-BOTTOM: 0px; PADDING-TOP: 0px; PADDING-LEFT: 8px;
MARGIN: 0px; PADDING-RIGHT: 0px } #ygrp-text { FONT-FAMILY: Georgia } #ygrp-text P {
MARGIN: 0px 0px 1em } #ygrp-text TT { FONT-SIZE: 120% } #ygrp-vital UL LI:unknown {
BORDER-RIGHT: medium none }
```

# 1935. Re: [hp8924] rf gen off frequency 8924c

Yahoo group: hp8924
Date: 2014-11-12 22:32:58 UTC
From: Ralph Mowery
Topic: 1931  Message: 1935

Have you hooked up an antenna and checked the frequency against WWV at 10 or 15 MHz ? Mine will show 15 and all zeros.

How far is it off at 450 MHz and some other places ?

There are several places to download the manuals in PDF . If you don't know it, down load the 8920 manual as it is very similar to the 8924c. Most of the 8924 manual is for the cell phone while the 8920 is mostly for general usage.

Did you look in the files section here for the manuals ?
I think you can get the PDF from Agilent at the web site.

I have several of them in PDF if you can not find them anywhere.

The service manual runs about 12 meg.

>_____
> From: "eseacord@... [hp8924]" <hp8924@yahoogroups.com>
>To: hp8924@yahoogroups.com
>Sent: Wednesday, November 12, 2014 2:38 PM
>Subject: [hp8924] rf gen off frequency 8924c
>
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>
>I just discovered the output on my 8924c rf generator is about 3kc lower at 144.
>The master oscillator(10mhz) is well within 1ppb but the out put frequency remains the same with using both internal and external time bases.
>Manuals on order but I would like to be able to attack this before they arrive either the Saturday or Monday.
>Thanks much
>Rix Seacord
>k2avp
>
>
>
>
>
>

# 1936. Re: [hp8924] rf gen off frequency 8924c

Yahoo group: hp8924
Date: 2014-11-12 22:57:31 UTC
From: Donald Forshee
Topic: 1931  Message: 1936

My 8920A will do that if the FM Coupling is set to DC and the unit hasn't been zeroed for a while. Setting the FM Coupling to AC or initiating the DC FM Zero at the bottom of the RF GEN screen fixes it...

I just discovered the output on my 8924c
rf generator is about 3kc lower at
144.The master oscillator(10mhz) is well
within 1ppb but the out put frequency remains the same with
using both internal and external time
bases.Manuals on order but I would like
to be able to attack this before they arrive either the
Saturday or Monday.Thanks
muchRix
Seacordk2avp

# 1937. Re: [hp8924] rf gen off frequency 8924c

Yahoo group: hp8924
Date: 2014-11-13 01:43:10 UTC
From: eseacord@...
Topic: 1931  Message: 1937

Don
I just tried your suggestions but no joy. Digging a little deeper, I have tried both the internal master oscillator and an external oscillator(trimble thunderbolt) and got the same results. The internal is set to better than 1ppb.
Leaving the link cable from 10 mhz oven ref out to ref input off, I get the unlock alarm but the rf gen output freq stays the same.
Does this possibly mean the circuits that select the reference oscillator are not picking up on it and running off another oscillator that should be locked to the reference.\\
Obviously I have a lot to learn about the box but it sure is worth whatever you pay for it. I had no idea I could do just about every test possible on a transmitter or receiver by punching a few buttons and spinning a knob or 2.
Mine is limited to 60w continuous.
Thanks all for you help.
Rix
K2avp

# 1938. Re: [hp8924] rf gen off frequency 8924c

Yahoo group: hp8924
Date: 2014-11-13 03:35:49 UTC
From: eseacord@...
Topic: 1931  Message: 1938

Ralph
Thanks for the manual offer. Hopefully mine will be in shortly.
I was able to dnld a 8920 manual from mods.dk but the test names are different.
Also did some more checking and found the gen is off by about 26ppm from 10 meg on up regardless of the internal/external reference oscillator. I just hope I don't have to replace any boards. I'm trying to save up enuf to have it re-calibrated. Last time unknown.
Thanks again
Rix
k2avp

# 1939. Re: [hp8924] rf gen off frequency 8924c

Yahoo group: hp8924
Date: 2014-11-13 07:41:14 UTC
From: Robert Atkinson
Topic: 1931  Message: 1939

Hi Rix,
Are the receiver and frequency counter also off?
Is the 10MHz Ref output (rear panel) off? This is the output of a separate 10MHz osc on the A15 card that is phase locked to the 10MHZ reference. If it's not locked you will get odities. Get the 8920 assembly level repair manual 08920-90168 and component level repair 08920-90107 from the Keysite website for starters. The main modules are the same as the 8924. The 8924 assembly level repair manual (ALRM ) is not so detailed.
I suspect a A15 module fault.

Did you know you can also do swept response measurements, scalar analyser style with the 8924?

HTH.
Robert G8RPI.

---
From: "eseacord@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Thursday, 13 November 2014, 3:35
Subject: Re: [hp8924] rf gen off frequency 8924c

Ralph
Thanks for the manual offer. Hopefully mine will be in shortly.
I was able to dnld a 8920 manual from mods.dk but the test names are different.
Also did some more checking and found the gen is off by about 26ppm from 10 meg on up regardless of the internal/external reference oscillator. I just hope I don't have to replace any boards. I'm trying to save up enuf to have it re-calibrated. Last time unknown.
Thanks again
Rix
k2avp

# 1940. Re: [hp8924] rf gen off frequency 8924c

Yahoo group: hp8924
Date: 2014-11-13 12:13:43 UTC
From: Ralph Mowery
Topic: 1931  Message: 1940

There are some differances in the 8920 and 8924c, but they are mainly the same. If you don't know about Amtronix, go here and look around for a while. They seem to be the go to people for those service monitors.

Amtronix Instruments, Inc. Site Map

Amtronix Instruments, Inc. Site Map
BTS Screen Capture
Laptop Utility
Capture the screen on your HP/ Agilent 8920A/B 8921A, 8924C, 8935,
E8285A to a bitmap file on your PC

View on www.amtronix.com Preview by Yahoo

>_____
> From: "eseacord@... [hp8924]" <hp8924@yahoogroups.com>
>To: hp8924@yahoogroups.com
>Sent: Wednesday, November 12, 2014 10:35 PM
>Subject: Re: [hp8924] rf gen off frequency 8924c
>
>
>
>
>
>Ralph
>Thanks for the manual offer. Hopefully mine will be in shortly.
>I was able to dnld a 8920 manual from mods.dk but the test names are different.
>Also did some more checking and found the gen is off by about 26ppm from 10 meg on up regardless of the internal/external reference oscillator. I just hope I don't have to replace any boards. I'm trying to save up enuf to have it re-calibrated. Last time unknown.
>Thanks again
>Rix
>k2avp
>
>
>
>

# 1941. Re: [hp8924] rf gen off frequency 8924c

Yahoo group: hp8924
Date: 2014-11-13 13:59:05 UTC
From: Rix
Topic: 1931  Message: 1941

Bob
Checking the ref output against a RB osciallator and Trimble thunder bolt its right on. IE close enuf for our work.
Causing the ref to unlock makes for no changes in the frequency being measure. 10mhz, 100mhz and 144mhz. all appear to be about 26ppm off.
Did you know you can also do swept response measurements, scalar analyser style with the 8924?At the time this is way beyond my pay grade:-)
I've checked one thunderbolt against another and they agree. Software reports each is within <200ppt. I am not patient enuff to check the phase shift times between the two.
Looks like I have to give amtronix a call to ship it to them. First I have to find if I can get a packing box from them. The local UPS wanted 250bucks to ship to south jersey.
Thanks
Rix

On 11/13/2014 2:41 AM, Robert Atkinson robert8rpi@... [hp8924] wrote:
> Hi Rix,
> Are the receiver and frequency counter also off?
> Is the 10MHz Ref output (rear panel) off? This is the output of a
> separate 10MHz osc on the A15 card that is phase locked to the 10MHZ
> reference. If it's not locked you will get odities. Get the 8920
> assembly level repair manual 08920-90168 and component level repair
> 08920-90107 from the Keysite website for starters. The main modules
> are the same as the 8924. The 8924 assembly level repair manual (ALRM
> ) is not so detailed.
> I suspect a A15 module fault.
> Did you know you can also do swept response measurements, scalar
> analyser style with the 8924?
> HTH.
> Robert G8RPI.
> *From:* "eseacord@... [hp8924]" <hp8924@yahoogroups.com>
> *To:* hp8924@yahoogroups.com
> *Sent:* Thursday, 13 November 2014, 3:35
> *Subject:* Re: [hp8924] rf gen off frequency 8924c
>
> Ralph
> Thanks for the manual offer. Hopefully mine will be in shortly.
> I was able to dnld a 8920 manual from mods.dk but the test names are
> different.
> Also did some more checking and found the gen is off by about 26ppm
> from 10 meg on up regardless of the internal/external reference
> oscillator. I just hope I don't have to replace any boards. I'm trying
> to save up enuf to have it re-calibrated. Last time unknown.

> Thanks again
> Rix
> k2avp
>
>
>

--
Rix Seacord
K2AVP Extra

845-628-0892 Home
914-262-9186 Cell
914-233-3886 Skype
When addressed to an individual, all emails are considered private cooorespondence and should not be discussed with any other parties unless permission is obtained from the originator.

# 1942. 8920a 100Watt mod ??

Yahoo group: hp8924
Date: 2014-11-18 10:25:06 UTC
From: mriisj@...
Topic: 1942  Message: 1942

Hi
I hope that this question is OK to ask in this 8924 forum.
I have a 8920A with the 60 watt input and would like to upgrade it to the 100 watt input, I found how this was done on the 8924 but not on the 8920A, have anyone done this and if so what need to be done and how do I calibrate the 8920A when done ??

Michael, OZ2ELA

# 1943. Re: 8920a 100Watt mod ??

Yahoo group: hp8924
Date: 2014-11-18 14:10:48 UTC
From: jyelmgren@...
Topic: 1942  Message: 1943

You have two ways to do this.
1. external attenuator and change the offset from 0 to whatever value you end up with in the configuration screen. You can set the gain or loss on all of the RF ports to adjust for external devices and cabling.
This is the easiest and cheapest approach and maintains the lower power option.

2. Replace the internal attenautor ...you would have to get the full assembly since you need the calibration information on the older style SRAM card. The 8920B and 8924C use a PCMCIA SRAM which is relatively easy to edit and you could just replace the internal attenuator hybrid with a 20db 100Watt version.

You did not state which version or power level you had ....believe the standard was 60W on the 8920A but there may have been low power options on the 8920A that essentially removed the whole RF/IO attenuator assembly

# 1944. Re: 8920a 100Watt mod ??

Yahoo group: hp8924
Date: 2014-11-19 05:19:21 UTC
From: rtatis@...
Topic: 1942  Message: 1944

Within the same topic. Anyone know where one can purchase the 100 watt (option 016) module for an 8920B? I've searched the usual used market sites with no luck. My 8920B has the low power input (option 007).

Thanks

# 1945. Re: 8920a 100Watt mod ??

Yahoo group: hp8924
Date: 2014-11-19 07:23:54 UTC
From: Angelo Graziani
Topic: 1942  Message: 1945

Try on Tucker,
some time ago I have seen that option,
offered new on e-bay in a site held by Tucker Elctronics.

vy '73 de iK0-iBi

# 1946. Re: [hp8924] Re: 8920a 100Watt mod ??

Yahoo group: hp8924
Date: 2014-11-19 13:02:43 UTC
From: Gerald Bishop
Topic: 1942  Message: 1946

Hi-Wondering if that can be done on the 8920 ,same as on the 8924 ??? 8924 Yahoo page has the info to put a 100 wy chip in place of the one you might have. have one for my 8924,just havn't gotten around to doing it as yet. de Jerry w8kq
----- Original Message -----
From: rtatis@... [hp8924]
To: hp8924@yahoogroups.com
Sent: Wednesday, November 19, 2014 12:19 AM
Subject: [hp8924] Re: 8920a 100Watt mod ??

Within the same topic. Anyone know where one can purchase the 100 watt (option 016) module for an 8920B? I've searched the usual used market sites with no luck. My 8920B has the low power input (option 007).

Thanks

---
This email is free from viruses and malware because avast! Antivirus protection is active.
http://www.avast.com

# 1947. SV: [hp8924] Re: 8920a 100Watt mod ??

Yahoo group: hp8924
Date: 2014-11-19 13:26:38 UTC
From: Michael Jensen
Topic: 1942  Message: 1947

HP 8920A option 016, 100 Watt input uses a 16dB chip attenuator and need to be calibrated when this is mounted I just don't know how.

The option 008, 6 watt input uses a 4dB attenuator.

The option 007, 2.4 Watt input has no attenuator.

I have not had the time to measure the standard 60 Watt attenuator yet.

Michael, OZ2ELA

Fra: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com]
Sendt: 19. november 2014 14:03
Til: hp8924@yahoogroups.com
Emne: Re: [hp8924] Re: 8920a 100Watt mod ??

□

Hi-Wondering if that can be done on the 8920 ,same as on the 8924 ??? 8924 Yahoo page has the info to put a 100 wy chip in place of the one you might have. have one for my 8924,just havn't gotten around to doing it as yet. de Jerry w8kq

----- Original Message -----

From: rtatis@... [hp8924] <mailto:rtatis@...%20[hp8924]>

To: hp8924@yahoogroups.com

Sent: Wednesday, November 19, 2014 12:19 AM

Subject: [hp8924] Re: 8920a 100Watt mod ??

Within the same topic. Anyone know where one can purchase the 100 watt (option 016) module for an 8920B? I've searched the usual used market sites with no luck. My 8920B has the low power input (option 007).

Thanks

---

<http://www.avast.com/>

This email is free from viruses and malware because avast! Antivirus <http://www.avast.com/> protection is active.

# 1948. Re: 8920a 100Watt mod ??

Yahoo group: hp8924
Date: 2014-11-19 13:49:05 UTC
From: jyelmgren@...
Topic: 1942  Message: 1948

on the 8920B you should be able to follow the 8924C procedure to replace the hybrid and correct the calibration. It does require you have a PCMCIA SRAM card and a PC with a PCMCIA slot so you can edit the card and run the cal procedure.

The issue on the 8920 may be the complete lack of the RF I/O attenuator assembly on the low power option forcing the acquisition of the complete assembly and not just the correct hybrid.

You still have the option of going the external route regardless of installed option or version.

# 1949. Re: [hp8924] Re: 8920a 100Watt mod ??

Yahoo group: hp8924
Date: 2014-11-19 15:08:31 UTC
From: Radhames Tatis
Topic: 1942  Message: 1949

I called them yesterday because I was told the same by a friend. But no luck, they have none.

Thanks
On Nov 19, 2014 2:23 AM, "'Angelo Graziani' etere.it@... [hp8924]" <hp8924@yahoogroups.com> wrote:

>
>
> Try on Tucker,
> some time ago I have seen that option,
> offered new on e-bay in a site held by Tucker Elctronics.
>
> vy '73 de iK0-iBi
>
>

# 1950. Re: [hp8924] Re: 8920a 100Watt mod ??

Yahoo group: hp8924
Date: 2014-11-19 15:48:15 UTC
From: Ralph Mowery
Topic: 1942  Message: 1950

Have you tried Amtronix ?  They listed some, but they may have been the 60 watt version.  I think they are about $ 350.
If you have the very low power version, you probably will have to have the whole heat sink replaced.  I think the 3 watt and up version use the same heat sink so mainly the atteunator is all that has to be changed, then reprogrammed.

From: "Radhames Tatis rtatis@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Wednesday, November 19, 2014 10:08 AM
Subject: Re: [hp8924] Re: 8920a 100Watt mod ??

<!--#yiv7957871567 #yiv7957871567 .yiv7957871567ygrp-photo-title{clear:both;font-size:smaller;height:15px;overflow:hidden;text-align:center;width:75px;}#yiv7957871567 div.yiv7957871567ygrp-photo{background-position:center;background-repeat:no-repeat;background-color:white;border:1px solid black;height:62px;width:62px;}#yiv7957871567 div.yiv7957871567photo-title a, #yiv7957871567 div.yiv7957871567photo-title a:active, #yiv7957871567 div.yiv7957871567photo-title a:hover, #yiv7957871567 div.yiv7957871567photo-title a:visited {text-decoration:none;}#yiv7957871567 div.yiv7957871567attach-table div.yiv7957871567attach-row {clear:both;}#yiv7957871567 div.yiv7957871567attach-table div.yiv7957871567attach-row div {float:left;}#yiv7957871567 p {clear:both;padding:15px 0 3px 0;overflow:hidden;}#yiv7957871567 div.yiv7957871567ygrp-file {width:30px;}#yiv7957871567 div.yiv7957871567attach-table div.yiv7957871567attach-row div div a {text-decoration:none;}#yiv7957871567 div.yiv7957871567attach-table div.yiv7957871567attach-row div div span {font-weight:normal;}#yiv7957871567 div.yiv7957871567ygrp-file-title {font-weight:bold;}#yiv7957871567 --> <!--#yiv7957871567 #yiv7957871567ygrp-mkp {border:1px solid #d8d8d8;font-family:Arial;margin:10px 0;padding:0 10px;}#yiv7957871567 #yiv7957871567ygrp-mkp hr {border:1px solid #d8d8d8;}#yiv7957871567 #yiv7957871567ygrp-mkp #yiv7957871567hd {color:#628c2a;font-size:85%;font-weight:700;line-height:122%;margin:10px 0;}#yiv7957871567 #yiv7957871567ygrp-mkp #yiv7957871567ads {margin-bottom:10px;}#yiv7957871567 #yiv7957871567ygrp-mkp .yiv7957871567ad {padding:0 0;}#yiv7957871567 #yiv7957871567ygrp-mkp .yiv7957871567ad p {margin:0;}#yiv7957871567 #yiv7957871567ygrp-mkp .yiv7957871567ad a {color:#0000ff;text-decoration:none;}-->

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  Try on Tucker,some time ago I have seen that option,offered new on e-bay in a site held by Tucker Elctronics. vy '73 de iK0-iBi

# 1951. Re[2]: [hp8924] Re: 8920a 100Watt mod ??

Yahoo group: hp8924
Date: 2014-11-19 16:04:08 UTC
From: rtatis@...
Topic: 1942  Message: 1951

Ok I see it listed on his site. Will reach out to him and see if he actually has some in stock, either the 60w or 100w. Yea my 8920B has option 007, which is the low power version, 1.2w(4w) attenuator, so yea, I'll have to have the entire heatsink replaced. I've been told this is something fairly easy to do along with the reprogramming.

Thanks for your help.

------ Original Message ------
From: "Ralph Mowery ku4pt@... [hp8924]" <hp8924@yahoogroups.com>
To: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
Sent: 11/19/2014 10:48:15 AM
Subject: Re: [hp8924] Re: 8920a 100Watt mod ??

>
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>Have you tried Amtronix ? They listed some, but they may have been the
>60 watt version. I think they are about $ 350.
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>If you have the very low power version, you probably will have to have
>the whole heat sink replaced. I think the 3 watt and up version use
>the same heat sink so mainly the atteunator is all that has to be
>changed, then reprogrammed.
>
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>>From: "Radhames Tatis rtatis@... [hp8924]"
>><hp8924@yahoogroups.com>
>>To:hp8924@yahoogroups.com
>>Sent: Wednesday, November 19, 2014 10:08 AM
>>Subject: Re: [hp8924] Re: 8920a 100Watt mod ??
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>>Thanks
>>On Nov 19, 2014 2:23 AM, "'Angelo Graziani' etere.it@... [hp8924]"
>><hp8924@yahoogroups.com> wrote:
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>>>some time ago I have seen that option,
>>>offered new on e-bay in a site held by Tucker Elctronics.
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>>>vy '73 de iK0-iBi
>>
>>

>>
>>
>

# 1952. Re: Re[2]: [hp8924] Re: 8920a 100Watt mod ??

Yahoo group: hp8924
Date: 2014-11-19 16:36:43 UTC
From: Ralph Mowery
Topic: 1942  Message: 1952

I replaced just the attenuator chip in my 8924 from the 3 watt to the 60 watt version. That was not bad at all except for about 100 screws to be removed and installed. I had to remove a few more and a cover to get to one that I dropped inside the unit. To install from the one without the high power heat sink you may have to install a couple of pieces of hardline. The programming is not bad at all if you have the program on a card. I think you have to flip a switch or two inside the unit to get it in the programming mode.

From: "rtatis@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com; "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
Sent: Wednesday, November 19, 2014 11:04 AM
Subject: Re[2]: [hp8924] Re: 8920a 100Watt mod ??

#yiv5030948587 #yiv5030948587 -- #yiv5030948587 .yiv5030948587ygrp-photo-title{clear:both;
font-size:smaller;height:15px;overflow:hidden;text-align:center;width:75px;}#yiv5030948587
div.yiv5030948587ygrp-photo{background-position:center;background-repeat:no-repeat;backgro
und-color:white;border:1px solid black;height:62px;width:62px;}#yiv5030948587
div.yiv5030948587photo-title a, #yiv5030948587 div.yiv5030948587photo-title a:active,
#yiv5030948587 div.yiv5030948587photo-title a:hover, #yiv5030948587
div.yiv5030948587photo-title a:visited {text-decoration:none;}#yiv5030948587
div.yiv5030948587attach-table div.yiv5030948587attach-row {clear:both;}#yiv5030948587
div.yiv5030948587attach-table div.yiv5030948587attach-row div {float:left;}#yiv5030948587
p {clear:both;padding:15px 0 3px 0;overflow:hidden;}#yiv5030948587
div.yiv5030948587ygrp-file {width:30px;}#yiv5030948587 div.yiv5030948587attach-table
div.yiv5030948587attach-row div div a {text-decoration:none;}#yiv5030948587
div.yiv5030948587attach-table div.yiv5030948587attach-row div div span
{font-weight:normal;}#yiv5030948587 div.yiv5030948587ygrp-file-title
{font-weight:bold;}#yiv5030948587 #yiv5030948587 #yiv5030948587
blockquote.yiv5030948587cite
{margin-left:5px;margin-right:0px;padding-left:10px;padding-right:0px;border-left:1px
solid #cccccc;}#yiv5030948587 blockquote.yiv5030948587cite2
{margin-left:5px;margin-right:0px;padding-left:10px;padding-right:0px;border-left:1px
solid #cccccc;margin-top:3px;padding-top:0px;}#yiv5030948587 .yiv5030948587plain pre,
#yiv5030948587 .yiv5030948587plain tt
{font-family:monospace;font-size:100%;font-weight:normal;font-style:normal;}#yiv5030948587
a img {border:0px;}#yiv5030948587 body {font-family:Tahoma;font-size:12pt;}#yiv5030948587
.yiv5030948587plain pre, #yiv5030948587 .yiv5030948587plain tt
{font-family:Tahoma;font-size:12pt;}

Ok I see it listed on his site. Will reach out to him and see if he actually has some in stock, either the 60w or 100w. Yea my 8920B has option 007, which is the low power version, 1.2w(4w) attenuator, so yea, I'll have to have the entire heatsink replaced. I've been told this is something fairly easy to do along with the reprogramming. Thanks for your help.

------ Original Message ------From: "Ralph Mowery ku4pt@... [hp8924]" <hp8924@yahoogroups.com>To: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>Sent: 11/19/2014 10:48:15 AMSubject: Re: [hp8924] Re: 8920a 100Watt mod ??

Have you tried Amtronix ? They listed some, but they may have been the 60 watt version. I think they are about $ 350.
If you have the very low power version, you probably will have to have the whole heat sink replaced. I think the 3 watt and up version use the same heat sink so mainly the atteunator is all that has to be changed, then reprogrammed.

From: "Radhames Tatis rtatis@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@...m
Sent: Wednesday, November 19, 2014 10:08 AM
Subject: Re: [hp8924] Re: 8920a 100Watt mod ??

I called them yesterday because I was told the same by a friend. But no luck, they have none. Thanks On Nov 19, 2014 2:23 AM, "'Angelo Graziani' etere.it@... [hp8924]" <hp8924@yahoogroups.com> wrote:

Try on Tucker,some time ago I have seen that option,offered new on e-bay in a site held by Tucker Elctronics. vy '73 de iK0-iBi

# 1953. Re[4]: [hp8924] Re: 8920a 100Watt mod ??

Yahoo group: hp8924
Date: 2014-11-19 16:45:03 UTC
From: rtatis@...
Topic: 1942  Message: 1953

There's always that ONE screw that drops in a crevice or magically goes missing...

------ Original Message ------
From: "Ralph Mowery ku4pt@...m [hp8924]" <hp8924@yahoogroups.com>
To: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
Sent: 11/19/2014 11:36:43 AM
Subject: Re: Re[2]: [hp8924] Re: 8920a 100Watt mod ??

>
>
>I replaced just the attenuator chip in my 8924 from the 3 watt to the
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>without the high power heat sink you may have to install a couple of
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>program on a card. I think you have to flip a switch or two inside the
>unit to get it in the programming mode.
>
>
>
>>----------
>>From: "rtatis@... [hp8924]" <hp8924@yahoogroups.com>
>>To:hp8924@yahoogroups.com; "hp8924@yahoogroups.com"
>><hp8924@yahoogroups.com>
>>Sent: Wednesday, November 19, 2014 11:04 AM
>>Subject: Re[2]: [hp8924] Re: 8920a 100Watt mod ??
>>
>>
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>>Ok I see it listed on his site. Will reach out to him and see if he
>>actually has some in stock, either the 60w or 100w. Yea my 8920B has
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>>yea, I'll have to have the entire heatsink replaced. I've been told
>>this is something fairly easy to do along with the reprogramming.
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>>Thanks for your help.
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>>------ Original Message ------
>>From: "Ralph Mowery ku4pt@... [hp8924]" <hp8924@yahoogroups.com>
>>To: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
>>Sent: 11/19/2014 10:48:15 AM

>>Subject: Re: [hp8924] Re: 8920a 100Watt mod ??
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>>>Have you tried Amtronix ? They listed some, but they may have been
>>>the 60 watt version. I think they are about $ 350.
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>>>If you have the very low power version, you probably will have to
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>>>>From: "Radhames Tatis rtatis@... [hp8924]"
>>>><hp8924@yahoogroups.com>
>>>>To:hp8924@yahoogroups.com
>>>>Sent: Wednesday, November 19, 2014 10:08 AM
>>>>Subject: Re: [hp8924] Re: 8920a 100Watt mod ??
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>>>>Thanks
>>>>On Nov 19, 2014 2:23 AM, "'Angelo Graziani' etere.it@...
>>>>[hp8924]" <hp8924@yahoogroups.com> wrote:
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>>>>>Try on Tucker,
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>>>>>vy '73 de iK0-iBi
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>

# 1954. Re: [hp8924] Re: 8920a 100Watt mod ??

Yahoo group: hp8924
Date: 2014-11-19 16:58:25 UTC
From: Gerald Bishop
Topic: 1942  Message: 1954

100 watt chip is about 30 bucks
----- Original Message -----
From: Ralph Mowery ku4pt@... [hp8924]
To: hp8924@yahoogroups.com
Sent: Wednesday, November 19, 2014 10:48 AM
Subject: Re: [hp8924] Re: 8920a 100Watt mod ??

Have you tried Amtronix ? They listed some, but they may have been the 60 watt version. I think they are about $ 350.

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From: "Radhames Tatis rtatis@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Wednesday, November 19, 2014 10:08 AM
Subject: Re: [hp8924] Re: 8920a 100Watt mod ??

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some time ago I have seen that option,
offered new on e-bay in a site held by Tucker Elctronics.

vy '73 de iK0-iBi

---
This email is free from viruses and malware because avast! Antivirus protection is active.
http://www.avast.com

# 1955. Re[2]: [hp8924] Re: 8920a 100Watt mod ??

Yahoo group: hp8924
Date: 2014-11-19 17:31:28 UTC
From: rtatis@...
Topic: 1942  Message: 1955

I'm a bit confused. What's this chip that everyone is referring to?
Bare with me all, I'm new to the 8920B and new to service monitors. The
8920B arrives today actually.
The upgrade to a higher power input from what I understand is an
attenuator, heatsink and the pcmcia card for reprogramming. So what's
this chip everyone is referring to?

Thanks

------ Original Message ------
From: "'Gerald Bishop' gsbishop@... [hp8924]"
<hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: 11/19/2014 11:58:25 AM
Subject: Re: [hp8924] Re: 8920a 100Watt mod ??

>
>□
>
>100 watt chip is about 30 bucks
>>----- Original Message -----
>>From:mailto:ku4pt@...m%20[hp8924]
>>To:hp8924@yahoogroups.com
>>Sent: Wednesday, November 19, 2014 10:48 AM
>>Subject: Re: [hp8924] Re: 8920a 100Watt mod ??
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>>>From: "Radhames Tatis rtatis@... [hp8924]"
>>><hp8924@yahoogroups.com>
>>>To:hp8924@yahoogroups.com
>>>Sent: Wednesday, November 19, 2014 10:08 AM
>>>Subject: Re: [hp8924] Re: 8920a 100Watt mod ??
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>>>>vy '73 de iK0-iBi
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>
>
>----------
>This email is free from viruses and malware because avast! Antivirus
>protection is active.
>
>
>

# 1956. Re: Re[2]: [hp8924] Re: 8920a 100Watt mod ??

Yahoo group: hp8924
Date: 2014-11-19 17:59:44 UTC
From: Gerald Bishop
Topic: 1942  Message: 1956

OK- Look in the files section of Yahoo 8924c group. Shows how to replace the ant chip with a biger one . !!W8KQ
----- Original Message -----
From: rtatis@... [hp8924]
To: hp8924@yahoogroups.com ; hp8924@yahoogroups.com
Sent: Wednesday, November 19, 2014 12:31 PM
Subject: Re[2]: [hp8924] Re: 8920a 100Watt mod ??

I'm a bit confused. What's this chip that everyone is referring to?
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------ Original Message ------
From: "'Gerald Bishop' gsbishop@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: 11/19/2014 11:58:25 AM
Subject: Re: [hp8924] Re: 8920a 100Watt mod ??

□

100 watt chip is about 30 bucks
----- Original Message -----
From: mailto:ku4pt@...%20[hp8924]
To: hp8924@yahoogroups.com
Sent: Wednesday, November 19, 2014 10:48 AM
Subject: Re: [hp8924] Re: 8920a 100Watt mod ??

Have you tried Amtronix ? They listed some, but they may have been the 60 watt version. I think they are about $ 350.

If you have the very low power version, you probably will have to have the whole heat sink replaced. I think the 3 watt and up version use the same heat sink so mainly the atteunator is all that has to be changed, then reprogrammed.

---

From: "Radhames Tatis rtatis@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Wednesday, November 19, 2014 10:08 AM
Subject: Re: [hp8924] Re: 8920a 100Watt mod ??

I called them yesterday because I was told the same by a friend. But no luck, they have none.

Thanks
On Nov 19, 2014 2:23 AM, "'Angelo Graziani' etere.it@... [hp8924]"
<hp8924@yahoogroups.com> wrote:

Try on Tucker,
some time ago I have seen that option,
offered new on e-bay in a site held by Tucker Elctronics.

vy '73 de iK0-iBi

---

This email is free from viruses and malware because avast! Antivirus protection is active.

---
This email is free from viruses and malware because avast! Antivirus protection is active.
http://www.avast.com

# 1957. Re[4]: [hp8924] Re: 8920a 100Watt mod ??

Yahoo group: hp8924
Date: 2014-11-19 18:02:55 UTC
From: rtatis@...
Topic: 1942  Message: 1957

Reading the pdf document now.

Thank You

------ Original Message ------
From: "'Gerald Bishop' gsbishop@... [hp8924]"
<hp8924@...m>
To: hp8924@yahoogroups.com
Sent: 11/19/2014 12:59:44 PM
Subject: Re: Re[2]: [hp8924] Re: 8920a 100Watt mod ??

>
>□
>
>OK- Look in the files section of Yahoo 8924c group. Shows how to
>replace the ant chip with a biger one . !!W8KQ
>>----- Original Message -----
>>From:mailto:rtatis@gmail.com%20[hp8924]
>>To:hp8924@yahoogroups.com ; hp8924@yahoogroups.com
>>Sent: Wednesday, November 19, 2014 12:31 PM
>>Subject: Re[2]: [hp8924] Re: 8920a 100Watt mod ??
>>
>>I'm a bit confused. What's this chip that everyone is referring to?
>>Bare with me all, I'm new to the 8920B and new to service monitors.
>>The 8920B arrives today actually.
>>The upgrade to a higher power input from what I understand is an
>>attenuator, heatsink and the pcmcia card for reprogramming. So what's
>>this chip everyone is referring to?
>>
>>Thanks
>>
>>------ Original Message ------
>>From: "'Gerald Bishop' gsbishop@... [hp8924]"
>><hp8924@yahoogroups.com>
>>To: hp8924@yahoogroups.com
>>Sent: 11/19/2014 11:58:25 AM
>>Subject: Re: [hp8924] Re: 8920a 100Watt mod ??
>>
>>>
>>>□
>>>
>>>100 watt chip is about 30 bucks
>>>>----- Original Message -----
>>>>From:mailto:ku4pt@...%20[hp8924]
>>>>To:hp8924@yahoogroups.com

>>>>Sent: Wednesday, November 19, 2014 10:48 AM
>>>>Subject: Re: [hp8924] Re: 8920a 100Watt mod ??
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>>>>Have you tried Amtronix ? They listed some, but they may have been
>>>>the 60 watt version. I think they are about $ 350.
>>>>
>>>>If you have the very low power version, you probably will have to
>>>>have the whole heat sink replaced. I think the 3 watt and up
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>>>>>From: "Radhames Tatis rtatis@... [hp8924]"
>>>>>><hp8924@yahoogroups.com>
>>>>>To:hp8924@yahoogroups.com
>>>>>Sent: Wednesday, November 19, 2014 10:08 AM
>>>>>Subject: Re: [hp8924] Re: 8920a 100Watt mod ??
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>>>This email is free from viruses and malware because avast! Antivirus
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>

>

# 1958. Re: Re[2]: [hp8924] Re: 8920a 100Watt mod ??

Yahoo group: hp8924
Date: 2014-11-19 18:11:54 UTC
From: Ralph Mowery
Topic: 1942  Message: 1958

While this is not the exact 'chip' it is very similar looking and acting item as shown on this ebay number.  There were several differant values used depending on the input rating of the unit.  HP made a retro fit kit containg the necessary parts and a sticker to put over the input N connector.  I guess that the word 'chip' is just being used to describe the atteunator  resistor thing as it is about as big as a postage stamp and thick as a nickle.  That part can be changed out instead of the whole heat sink if going from the 3 watt unit to a 60 watt unit rating as the heat sink part is the same.  YOu just change that and reprogram for the amount the atteunator is rated for.

If you look here you can see the heat sink.  The 'chip' goes in the small box on the top of the heat sink. YOu can use one of the atteunators not for the 8924 series, but you have to change the value on the programming card.  There are files in the file section telling how to do this.
Some units came from the factory with out the heat sink (think it is the 007 low power option) and rated for about one or two  watts.  Starting with the 3 watt units there were heat sinks.  They can be over powered by a small amount for a short time.  The 60 watt unit is for 60 watts all the time , but you can run 100 watts for about 20 seconds and the let it cool off for a while.  If you over power the unit, an alarm will sound if it is set that way.

Ebay number 111491436943
Ebay number 371192509629

From: "rtatis@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@...m; hp8924@yahoogroups.com
Sent: Wednesday, November 19, 2014 12:31 PM
Subject: Re[2]: [hp8924] Re: 8920a 100Watt mod ??


```
<!--#yiv4655521920 #yiv4655521920 .yiv4655521920ygrp-photo-title{clear:both;font-size:smal
ler;height:15px;overflow:hidden;text-align:center;width:75px;}#yiv4655521920 div.yiv465552
1920ygrp-photo{background-position:center;background-repeat:no-repeat;background-color:whi
te;border:1px solid black;height:62px;width:62px;}#yiv4655521920
div.yiv4655521920photo-title a, #yiv4655521920 div.yiv4655521920photo-title a:active,
#yiv4655521920 div.yiv4655521920photo-title a:hover, #yiv4655521920
div.yiv4655521920photo-title a:visited {text-decoration:none;}#yiv4655521920
div.yiv4655521920attach-table div.yiv4655521920attach-row {clear:both;}#yiv4655521920
div.yiv4655521920attach-table div.yiv4655521920attach-row div {float:left;}#yiv4655521920
p {clear:both;padding:15px 0 3px 0;overflow:hidden;}#yiv4655521920
div.yiv4655521920ygrp-file {width:30px;}#yiv4655521920 div.yiv4655521920attach-table
div.yiv4655521920attach-row div div a {text-decoration:none;}#yiv4655521920
div.yiv4655521920attach-table div.yiv4655521920attach-row div div span
{font-weight:normal;}#yiv4655521920 div.yiv4655521920ygrp-file-title
{font-weight:bold;}#yiv4655521920 --> #yiv4655521920 blockquote.yiv4655521920cite
{margin-left:5px;margin-right:0px;padding-left:10px;padding-right:0px;border-left:1px
solid #cccccc;}#yiv4655521920 blockquote.yiv4655521920cite2
{margin-left:5px;margin-right:0px;padding-left:10px;padding-right:0px;border-left:1px
```

solid #cccccc;margin-top:3px;padding-top:0px;}#yiv4655521920 .yiv4655521920plain pre, #yiv4655521920 .yiv4655521920plain tt {font-family:monospace;font-size:100%;font-weight:normal;font-style:normal;}#yiv4655521920 a img {border:0px;}#yiv4655521920 body {font-family:Tahoma;font-size:12pt;}#yiv4655521920 .yiv4655521920plain pre, #yiv4655521920 .yiv4655521920plain tt {font-family:Tahoma;font-size:12pt;}

I'm a bit confused. What's this chip that everyone is referring to? Bare with me all, I'm new to the 8920B and new to service monitors. The 8920B arrives today actually. The upgrade to a higher power input from what I understand is an attenuator, heatsink and the pcmcia card for reprogramming. So what's this chip everyone is referring to? Thanks ------ Original Message ------From: "'Gerald Bishop' gsbishop@... [hp8924]" <hp8924@yahoogroups.com>To: hp8924@yahoogroups.comSent: 11/19/2014 11:58:25 AMSubject: Re: [hp8924] Re: 8920a 100Watt mod ??

☐ 100 watt chip is about 30 bucks

----- Original Message ----- From: mailto:ku4pt@...%20[hp8924] To: hp8924@yahoogroups.com Sent: Wednesday, November 19, 2014 10:48 AMSubject: Re: [hp8924] Re: 8920a 100Watt mod ??

Have you tried Amtronix ? They listed some, but they may have been the 60 watt version. I think they are about $ 350. If you have the very low power version, you probably will have to have the whole heat sink replaced. I think the 3 watt and up version use the same heat sink so mainly the atteunator is all that has to be changed, then reprogrammed.

From: "Radhames Tatis rtatis@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Wednesday, November 19, 2014 10:08 AM
Subject: Re: [hp8924] Re: 8920a 100Watt mod ??

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Try on Tucker,some time ago I have seen that option,offered new on e-bay in a site held by Tucker Elctronics. vy '73 de iK0-iBi

| | This email is free from viruses and malware because avast! Antivirus protection is active. |

# 1959. Re[4]: [hp8924] Re: 8920a 100Watt mod ??

Yahoo group: hp8924
Date: 2014-11-19 20:52:58 UTC
From: rtatis@...
Topic: 1942  Message: 1959

This was great information Ralph. So since I have the low power unit which does not have the heatsink apparently, I would have to obtain a heatsink from say a 6db unit, then retrofit in one of the higher powered "chips", install and then reprogram the service monitor.

Which begs the question. Why go through all that trouble when instead one could use an external attenuator and set the attenuator value in the configuration screen of the 8920b?

Thoughts?

Thank You all

------ Original Message ------
From: "Ralph Mowery ku4pt@... [hp8924]" <hp8924@yahoogroups.com>
To: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
Sent: 11/19/2014 1:11:54 PM
Subject: Re: Re[2]: [hp8924] Re: 8920a 100Watt mod ??

>
>
>While this is not the exact 'chip' it is very similar looking and
>acting item as shown on this ebay number. There were several differant
>values used depending on the input rating of the unit. HP made a retro
>fit kit containg the necessary parts and a sticker to put over the
>input N connector. I guess that the word 'chip' is just being used to
>describe the atteunator resistor thing as it is about as big as a
>postage stamp and thick as a nickle. That part can be changed out
>instead of the whole heat sink if going from the 3 watt unit to a 60
>watt unit rating as the heat sink part is the same. YOu just change
>that and reprogram for the amount the atteunator is rated for.
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>If you look here you can see the heat sink. The 'chip' goes in the
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>atteunators not for the 8924 series, but you have to change the value
>on the programming card. There are files in the file section telling
>how to do this.
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>Some units came from the factory with out the heat sink (think it is
>the 007 low power option) and rated for about one or two watts.
>Starting with the 3 watt units there were heat sinks. They can be over
>powered by a small amount for a short time. The 60 watt unit is for 60
>watts all the time , but you can run 100 watts for about 20 seconds and
>the let it cool off for a while. If you over power the unit, an alarm
>will sound if it is set that way.

>
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>Ebay number 111491436943
>
>Ebay number 371192509629
>
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>>From: "rtatis@... [hp8924]" <hp8924@yahoogroups.com>
>>To:hp8924@yahoogroups.com; hp8924@yahoogroups.com
>>Sent: Wednesday, November 19, 2014 12:31 PM
>>Subject: Re[2]: [hp8924] Re: 8920a 100Watt mod ??
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>>To: hp8924@yahoogroups.com
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>>Subject: Re: [hp8924] Re: 8920a 100Watt mod ??
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>>>>----- Original Message -----
>>>>From:mailto:ku4pt@...%20[hp8924]
>>>>To:hp8924@yahoogroups.com
>>>>Sent: Wednesday, November 19, 2014 10:48 AM
>>>>Subject: Re: [hp8924] Re: 8920a 100Watt mod ??
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>>>>the 60 watt version. I think they are about $ 350.
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>>>>><hp8924@yahoogroups.com>
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>>>This email is free from viruses and malware because avast! Antivirus
>>>protection is active.
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# 1960. Re: Re[4]: [hp8924] Re: 8920a 100Watt mod ??

Yahoo group: hp8924
Date: 2014-11-19 22:50:27 UTC
From: Ralph Mowery
Topic: 1942  Message: 1960

It is a lot of trouble and money.  When I bought my 8924 someone was selling the atteunator 'chip' and a factory sticker and loaning the memory card with a program on it for about $ 150.  Have not seen that on for a while on ebay.Took me about 2 hours to do the conversion, but I took a few pix of the unit while inside.  I did use an battery powered drill to twist out all the screws and put them most of the way back in.  That is counting dropping one of the screws down inside the unit and getting it back out.
I did mine for two reasons.  Did not have a 10 db attenuator and wanted to help protect over powering the thing as I usually test out  up  to 100 watt transmitters. Every bit of dummy proofing I can get helps me.. Did not want to have to drag around another piece of equipment when I go to a repeater I help keep on the air.
You can get one of the generic "chips" off ebay and put it on a heat sink and if it is a 10 db pad or just buy a 10 db 100 watt unit , just remember to move the decimal point in your head.

From: "rtatis@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com; "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
Sent: Wednesday, November 19, 2014 3:52 PM
Subject: Re[4]: [hp8924] Re: 8920a 100Watt mod ??

#yiv4227977015 #yiv4227977015 -- #yiv4227977015 .yiv4227977015ygrp-photo-title{clear:both;
font-size:smaller;height:15px;overflow:hidden;text-align:center;width:75px;}#yiv4227977015
div.yiv4227977015ygrp-photo{background-position:center;background-repeat:no-repeat;backgro
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div.yiv4227977015photo-title a, #yiv4227977015 div.yiv4227977015photo-title a:active,
#yiv4227977015 div.yiv4227977015photo-title a:hover, #yiv4227977015
div.yiv4227977015photo-title a:visited {text-decoration:none;}#yiv4227977015
div.yiv4227977015attach-table div.yiv4227977015attach-row {clear:both;}#yiv4227977015
div.yiv4227977015attach-table div.yiv4227977015attach-row div {float:left;}#yiv4227977015
p {clear:both;padding:15px 0 3px 0;overflow:hidden;}#yiv4227977015
div.yiv4227977015ygrp-file {width:30px;}#yiv4227977015 div.yiv4227977015attach-table
div.yiv4227977015attach-row div div a {text-decoration:none;}#yiv4227977015
div.yiv4227977015attach-table div.yiv4227977015attach-row div div span
{font-weight:normal;}#yiv4227977015 div.yiv4227977015ygrp-file-title
{font-weight:bold;}#yiv4227977015 #yiv4227977015 #yiv4227977015
BLOCKQUOTE.yiv4227977015cite {PADDING-LEFT:10px;MARGIN-LEFT:5px;BORDER-LEFT:#cccccc 1px
solid;PADDING-RIGHT:0px;MARGIN-RIGHT:0px;}#yiv4227977015 BLOCKQUOTE.yiv4227977015cite2
{PADDING-TOP:0px;PADDING-LEFT:10px;MARGIN-LEFT:5px;BORDER-LEFT:#cccccc 1px
solid;MARGIN-TOP:3px;PADDING-RIGHT:0px;MARGIN-RIGHT:0px;}#yiv4227977015
.yiv4227977015plain PRE
{FONT-SIZE:100%;FONT-FAMILY:monospace;FONT-WEIGHT:normal;FONT-STYLE:normal;}#yiv4227977015
.yiv4227977015plain TT
{FONT-SIZE:100%;FONT-FAMILY:monospace;FONT-WEIGHT:normal;FONT-STYLE:normal;}#yiv4227977015
A IMG {BORDER-LEFT-WIDTH:0px;BORDER-RIGHT-WIDTH:0px;BORDER-BOTTOM-WIDTH:0px;BORDER-TOP-WID
TH:0px;}#yiv4227977015 #yiv4227977015x82c0f903638743c5949f4150bc42e969
{FONT-SIZE:12pt;FONT-FAMILY:Tahoma;}#yiv4227977015 .yiv4227977015plain PRE

{FONT-SIZE:12pt;FONT-FAMILY:Tahoma;}#yiv4227977015 .yiv4227977015plain TT
{FONT-SIZE:12pt;FONT-FAMILY:Tahoma;}#yiv4227977015 BODY
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---

# 1961. Re[6]: [hp8924] Re: 8920a 100Watt mod ??

Yahoo group: hp8924
Date: 2014-11-20 16:33:35 UTC
From: rtatis@...
Topic: 1942  Message: 1961

I've decided to forego the idea of upgrading the HP itself and going
with an external attenuator instead. I'm now actually thinking of just
building my own external attenuator (homebrew).
Heatsink housing, 20db attenuator chip, couple of N connectors, thermal
compound and some 50ohm coax(RG-142). Should be able to get it done for
around $50.

Thanks for all the help

------ Original Message ------
From: "Ralph Mowery ku4pt@... [hp8924]" <hp8924@yahoogroups.com>
To: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
Sent: 11/19/2014 5:50:27 PM
Subject: Re: Re[4]: [hp8924] Re: 8920a 100Watt mod ??

>
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>It is a lot of trouble and money. When I bought my 8924 someone was
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>Took me about 2 hours to do the conversion, but I took a few pix of the
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>out.
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>to help protect over powering the thing as I usually test out up to
>100 watt transmitters. Every bit of dummy proofing I can get helps me..
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>You can get one of the generic "chips" off ebay and put it on a heat
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>>From: "rtatis@... [hp8924]" <hp8924@yahoogroups.com>
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>>
>>Thoughts?
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>>Thank You all
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>>
>>
>>-----
>

# 1962. Re: Re[6]: [hp8924] Re: 8920a 100Watt mod ??

Yahoo group: hp8924
Date: 2014-11-20 17:48:47 UTC
From: Ralph Mowery
Topic: 1942  Message: 1962

Yes, a 20 db attenuator would be a good way to go.  I said a 10 db, but that is not nearly enough where a 20 db would let you move the decimal place 2 places in your head or you can set the offset in the start up menue.  You may want to use BNC connectors instead so you can use some rg-400 cable.  I put a BNC to N adaptor on  my set and leave it on all the time.  Saves wear and tear on the connector on the test set and if it wears out, can be replaced very easy.  I just wish the other two connectors on the set would have been N type also.

From: "rtatis@gmail.com [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com; "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
Sent: Thursday, November 20, 2014 11:33 AM
Subject: Re[6]: [hp8924] Re: 8920a 100Watt mod ??

#yiv1748154265 #yiv1748154265 -- #yiv1748154265 .yiv1748154265ygrp-photo-title{clear:both;
font-size:smaller;height:15px;overflow:hidden;text-align:center;width:75px;}#yiv1748154265
div.yiv1748154265ygrp-photo{background-position:center;background-repeat:no-repeat;backgro
und-color:white;border:1px solid black;height:62px;width:62px;}#yiv1748154265
div.yiv1748154265photo-title a, #yiv1748154265 div.yiv1748154265photo-title a:active,
#yiv1748154265 div.yiv1748154265photo-title a:hover, #yiv1748154265
div.yiv1748154265photo-title a:visited {text-decoration:none;}#yiv1748154265
div.yiv1748154265attach-table div.yiv1748154265attach-row {clear:both;}#yiv1748154265
div.yiv1748154265attach-table div.yiv1748154265attach-row div {float:left;}#yiv1748154265
p {clear:both;padding:15px 0 3px 0;overflow:hidden;}#yiv1748154265
div.yiv1748154265ygrp-file {width:30px;}#yiv1748154265 div.yiv1748154265attach-table
div.yiv1748154265attach-row div div a {text-decoration:none;}#yiv1748154265
div.yiv1748154265attach-table div.yiv1748154265attach-row div div span
{font-weight:normal;}#yiv1748154265 div.yiv1748154265ygrp-file-title
{font-weight:bold;}#yiv1748154265 #yiv1748154265 #yiv1748154265
blockquote.yiv1748154265cite
{margin-left:5px;margin-right:0px;padding-left:10px;padding-right:0px;border-left:1px
solid #cccccc;}#yiv1748154265 blockquote.yiv1748154265cite2
{margin-left:5px;margin-right:0px;padding-left:10px;padding-right:0px;border-left:1px
solid #cccccc;margin-top:3px;padding-top:0px;}#yiv1748154265 .yiv1748154265plain pre,
#yiv1748154265 .yiv1748154265plain tt
{font-family:monospace;font-size:100%;font-weight:normal;font-style:normal;}#yiv1748154265
a img {border:0px;}#yiv1748154265 body {font-family:Tahoma;font-size:12pt;}#yiv1748154265
.yiv1748154265plain pre, #yiv1748154265 .yiv1748154265plain tt
{font-family:Tahoma;font-size:12pt;}

I've decided to forego the idea of upgrading the HP itself and going with an external attenuator instead. I'm now actually thinking of just building my own external attenuator (homebrew). Heatsink housing, 20db attenuator chip, couple of N connectors, thermal compound and some 50ohm coax(RG-142). Should be able to get it done for around $50.  Thanks for all the help

------ Original Message ------From: "Ralph Mowery ku4pt@... [hp8924]" <hp8924@yahoogroups.com>To: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>Sent: 11/19/2014 5:50:27 PMSubject: Re: Re[4]: [hp8924] Re: 8920a 100Watt mod ??

It is a lot of trouble and money. When I bought my 8924 someone was selling the atteunator 'chip' and a factory sticker and loaning the memory card with a program on it for about $ 150. Have not seen that on for a while on ebay.Took me about 2 hours to do the conversion, but I took a few pix of the unit while inside. I did use an battery powered drill to twist out all the screws and put them most of the way back in. That is counting dropping one of the screws down inside the unit and getting it back out.

I did mine for two reasons. Did not have a 10 db attenuator and wanted to help protect over powering the thing as I usually test out up to 100 watt transmitters. Every bit of dummy proofing I can get helps me.. Did not want to have to drag around another piece of equipment when I go to a repeater I help keep on the air.

You can get one of the generic "chips" off ebay and put it on a heat sink and if it is a 10 db pad or just buy a 10 db 100 watt unit , just remember to move the decimal point in your head.

From: "rtatis@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com; "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
Sent: Wednesday, November 19, 2014 3:52 PM
Subject: Re[4]: [hp8924] Re: 8920a 100Watt mod ??

This was great information Ralph. So since I have the low power unit which does not have the heatsink apparently, I would have to obtain a heatsink from say a 6db unit, then retrofit in one of the higher powered "chips", install and then reprogram the service monitor. Which begs the question. Why go through all that trouble when instead one could use an external attenuator and set the attenuator value in the configuration screen of the 8920b? Thoughts? Thank You all

---

# 1963. Re: Re[6]: [hp8924] Re: 8920a 100Watt mod ??

Yahoo group: hp8924
Date: 2014-11-20 22:35:15 UTC
From: jyelmgren@...
Topic: 1942  Message: 1963

There are 20db External attenuators that support high power for pretty reasonable prices.

Not really worth the hassle of building one to get a consistent level across the full band

# 1964. Re: Re[6]: [hp8924] Re: 8920a 100Watt mod ??

Yahoo group: hp8924
Date: 2014-11-20 22:37:52 UTC
From: Radhames Tatis
Topic: 1942  Message: 1964

Yea I've seen a few reasonably priced ones already. I'll probably end up buying one and building one(for fun).
On Nov 20, 2014 5:35 PM, "jyelmgren@cinci.rr.com [hp8924]" <hp8924@yahoogroups.com> wrote:

>
>
> There are 20db External attenuators that support high power for pretty
> reasonable prices.
>
> Not really worth the hassle of building one to get a consistent level
> across the full band
>
>

# 1965. HP7835 RF tools

Yahoo group: hp8924
Date: 2014-12-04 13:08:31 UTC
From: wallydoc@...
Topic: 1965  Message: 1965

I am considering buying a HP 8935.
How do I tell if RF tools are included?
Do I need the PCMCIA card or is the program loaded?
If there is a RF tools screen does that mean tools are set up?
Any other things to consider?
Thanks for any advice.
Wally KC9INK

# 1966. Re: [hp8924] HP7835 RF tools

Yahoo group: hp8924
Date: 2014-12-04 13:38:53 UTC
From: Ralph Mowery
Topic: 1965  Message: 1966

From this page it seems the 8935 has the RF Tools built in.  If the screen comes up , then it does.  This is just the software and you will have to have a RLB and another combiner to make use of all the RT Tools functions.
HP / Agilent 8935 E6380A

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|  | |  |  |  |  |  |
| HP / Agilent 8935 E6380A  Here are the maindifferences between the HP 8920B and the HP 8935 / E6380A units. |
| |
| View on www.amtronix.com | Preview by Yahoo |
| |
|  |

From: "wallydoc@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Thursday, December 4, 2014 8:08 AM
Subject: [hp8924] HP7835 RF tools

<!--#yiv6764318726 #yiv6764318726 .yiv6764318726ygrp-photo-title{clear:both;font-size:smaller;height:15px;overflow:hidden;text-align:center;width:75px;}#yiv6764318726 div.yiv6764318726ygrp-photo{background-position:center;background-repeat:no-repeat;background-color:white;border:1px solid black;height:62px;width:62px;}#yiv6764318726 div.yiv6764318726photo-title a, #yiv6764318726 div.yiv6764318726photo-title a:active, #yiv6764318726 div.yiv6764318726photo-title a:hover, #yiv6764318726 div.yiv6764318726photo-title a:visited {text-decoration:none;}#yiv6764318726 div.yiv6764318726attach-table div.yiv6764318726attach-row {clear:both;}#yiv6764318726 div.yiv6764318726attach-table div.yiv6764318726attach-row div {float:left;}#yiv6764318726 p {clear:both;padding:15px 0 3px 0;overflow:hidden;}#yiv6764318726 div.yiv6764318726ygrp-file {width:30px;}#yiv6764318726 div.yiv6764318726attach-table div.yiv6764318726attach-row div div a {text-decoration:none;}#yiv6764318726 div.yiv6764318726attach-table div.yiv6764318726attach-row div div span {font-weight:normal;}#yiv6764318726 div.yiv6764318726ygrp-file-title {font-weight:bold;}#yiv6764318726 --> <!--#yiv6764318726 #yiv6764318726ygrp-mkp {border:1px solid #d8d8d8;font-family:Arial;margin:10px 0;padding:0 10px;}#yiv6764318726 #yiv6764318726ygrp-mkp hr {border:1px solid #d8d8d8;}#yiv6764318726 #yiv6764318726ygrp-mkp #yiv6764318726hd {color:#628c2a;font-size:85%;font-weight:700;line-height:122%;margin:10px 0;}#yiv6764318726 #yiv6764318726ygrp-mkp #yiv6764318726ads {margin-bottom:10px;}#yiv6764318726 #yiv6764318726ygrp-mkp .yiv6764318726ad {padding:0 0;}#yiv6764318726 #yiv6764318726ygrp-mkp .yiv6764318726ad p {margin:0;}#yiv6764318726 #yiv6764318726ygrp-mkp .yiv6764318726ad a {color:#0000ff;text-decoration:none;}-->

I am considering buying a HP 8935.How do I tell if RF tools are included?Do I need the PCMCIA card or is the program loaded?If there is a RF tools screen does that mean tools are set up?Any other things to consider?Thanks for any advice.Wally KC9INK

# 1967. Re: [hp8924] HP7835 RF tools

Yahoo group: hp8924
Date: 2014-12-04 13:44:41 UTC
From: W Private
Topic: 1965  Message: 1967

Thanks RalphWally KC9INK

On Thursday, December 4, 2014 8:39 AM, "Ralph Mowery ku4pt@... [hp8924]" <hp8924@yahoogroups.com> wrote:

  From this page it seems the 8935 has the RF Tools built in.  If the screen comes up , then it does.  This is just the software and you will have to have a RLB and another combiner to make use of all the RT Tools functions.
HP / Agilent 8935 E6380A

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To: hp8924@yahoogroups.com
Sent: Thursday, December 4, 2014 8:08 AM
Subject: [hp8924] HP7835 RF tools

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# 1968. RE: [hp8924] HP7835 RF tools

Yahoo group: hp8924
Date: 2014-12-04 17:59:36 UTC
From: Adam Farson
Topic: 1965  Message: 1968

Hi Wally,

The 8935 has RF tools resident in ROM. The RF Tools screen comes up when the feature is invoked.

You will need two accessories: an RLB for swept return loss measurement, and a resistive (not transformer-type) combiner for cable fault testing. I have the Mini-Circuits ZFRSC-2050-N and the Amtronix SW2012N. You will also need a precision 50Ω 1W termination (Narda or similar.)

73, Adam VA7OJ/AB4OJ

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com]
Sent: 4-Dec-14 05:09
To: hp8924@yahoogroups.com
Subject: [hp8924] HP7835 RF tools

I am considering buying a HP 8935.

How do I tell if RF tools are included?

Do I need the PCMCIA card or is the program loaded?

If there is a RF tools screen does that mean tools are set up?

Any other things to consider?

Thanks for any advice.

Wally KC9INK

# 1969. HP8920A Help

Yahoo group: hp8924
Date: 2014-12-12 10:54:32 UTC
From: sanjaya_t@...
Topic: 1969  Message: 1969

hello thanks for let me joining in this group
i just got a HP8920a in the local auction in my country
the instrument is have a problem some time the display want to turn on and sometimes don't
i've checked all the power supply output voltage and its seem to be okay all the output voltage it's normal
when the power is on the speaker make a sound Hisss and beep after about 5 second and then became a hiss noise again... when the power off the crt screen only just blinking for a second
the 4 led indicator inside just turn all on...
i've download the assembly level manual and try to figure out what happen to may service monitor and it's seem dead end ....
but some time the service monitor just turn on suddenly and working just have a spectrum analyzer eror 242 but all the other function is working fine
maybe any one can help me or i hope some one have the HP8920A that can i ask a few think to compare and share... thanks all

best Regard
sanjaya

My amateur Radio license
YC8AX

# 1970. Re: [hp8924] HP8920A Help

Yahoo group: hp8924
Date: 2014-12-12 13:51:41 UTC
From: Don Kovalchik - W8DPK
Topic: 1969  Message: 1970

My 8924 recently experienced an Error 242, and after much troubleshooting the problem turned out to be a defective module A32 (P/N 08920-61852). Replaced the module and recalibrated - now everything is good.

--Don--

/On Friday, December 12, 2014 5:54:32 AM, sanjaya_t@... [hp8924] [hp8924@yahoogroups.com] wrote:/
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> YC8AX
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> ---
> Posted by: sanjaya_t@...
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# 1971. Re: [hp8924] HP8920A Help

Yahoo group: hp8924
Date: 2014-12-12 14:13:02 UTC
From: W Private
Topic: 1969  Message: 1971

Hello and welcome:I had similar problems with entirely different HP equipment and spoke to a real HP repairman. He said to wash the boards with isopropyl alcohol (rubbing alcohol), make sure that the plug in spots are clean. He said it was surprising how this simple procedure could help. If the problem is dirty contacts this could help.He said use isopropyl because it does not contain water, ethanol does.Other folks will tell you to use deoxyit or other spray cleaner, iso is cheaper.I really do not have any experience with your particular unit, but this procedure has helped multiple problems on old equipment.Wally, KC9INK

On Friday, December 12, 2014 8:51 AM, "Don Kovalchik - W8DPK w8dpk@... [hp8924]" <hp8924@yahoogroups.com> wrote:

  My 8924 recently experienced an Error 242, and after much troubleshooting the problem turned out to be a defective module A32 (P/N 08920-61852). Replaced the module and recalibrated - now everything is good.

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> My amateur Radio license
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> ---
> Posted by: sanjaya_t@...
> ---

# 1972. RE: [hp8924] HP8920A Help

Yahoo group: hp8924
Date: 2014-12-12 14:25:24 UTC
From: Mike (WM4B)
Topic: 1969  Message: 1972

Do NOT use Isopropyl alcohol from the drug store as it may contain additives such as salts. Go to Lowes and buy a can of isopropyl alcohol if that’s what you choose to clean with. Dispense it into another container before cleaning…. do NOT dip your brush into the can. Keep the can sealed tight when you're not dispensing... it will collect water from the air very quickly.

That being said, I would definitely choose DeOxIt over alcohol. Alcohol is a solvent…nothing more. DeOxIt, as the name suggests, will remove oxidation and condition the contacts. There are similar products that work well too. Yes... they are expensive, but you won't use very much and they are worth the money. If you’re going to go to the trouble of tearing it apart to clean it, why not do it right?

You seem to have two problems. I suggest looking into the power supply circuit to see if there is a keep-alive or standby voltage that may be drifting or dirty; IIRC, the -8924 has a similar issue related to the power supply. Don’t waste time with the Error 242 until you fix the first problem.

YMMV,

Mike
WM4B
From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com]
Sent: Friday, December 12, 2014 9:13 AM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] HP8920A Help

Hello and welcome:
I had similar problems with entirely different HP equipment and spoke to a real HP repairman. He said to wash the boards with isopropyl alcohol (rubbing alcohol), make sure that the plug in spots are clean. He said it was surprising how this simple procedure could help.
If the problem is dirty contacts this could help.
He said use isopropyl because it does not contain water, ethanol does.
Other folks will tell you to use deoxyit or other spray cleaner, iso is cheaper.
I really do not have any experience with your particular unit, but this procedure has helped multiple problems on old equipment.
Wally, KC9INK

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/On Friday, December 12, 2014 5:54:32 AM, sanjaya_t@... [hp8924]
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> Posted by: sanjaya_t@...
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# 1973. 8924C Power Supply

Yahoo group: hp8924
Date: 2014-12-14 05:34:05 UTC
From: wb6dgn_tom@...
Topic: 1307  Message: 1973

I think the electrolytics in my 8924C's power supply are dying.
When I start the instrument cold, the unit will start to boot and the display shows the couple lines of text at the top left as normal. Then, when the splash screen comes on (drawing more current) the display goes blank and the fan stops for a few moments, then the display comes back and the fan starts. This sequence repeats a random number of times until the machine completes the boot cycle (obviously, not all voltages are going down) and then the machine runs normally (at least, right now).
When the oven is allowed to warm up before turning on the instrument, the instrument boots and displays normally as if nothing is wrong.
So...I'm guessing that the part of the supply that supplies the oven and the display has some aging capacitors; probably excessive ESR, which is causing the issue.
In any case, my question is; "does anyone have a list of the capacitors that should be changed so I can order them before I take the instrument apart. Right now I can still use it IF I let the oven warm up first and THEN turn on the unit. 'Course, not sure how long that's going to last.
So...if anyone's got values and/or part numbers as well as a recommended source (I prefer Mouser if possible), that will keep me from having to dismantle it and have the pieces lying around until the parts come
All suggestions and advice greatly appreciated!
Tom

# 1974. Re: 8924C Power Supply

Yahoo group: hp8924
Date: 2014-12-14 09:50:37 UTC
From: zl1cvd@...
Topic: 1307  Message: 1974

This is some data I had on hand - I normally blanket replace as many caps as possible - supply and crt. These are PSU caps - what I put in - ignore the done, it was a todo list:
C5 (J3) 47uF 50V - done
C6 (J3) 33uF 25V - done
2x (J5) 33uF 25V - done
C6 (J6) 33uF 25V - done
C7 (J7) 33uF 25V - done
C8 (J7) 33uF 25V - done
C11 (J4) 4.7uF 50V - done
C16 (J4) 100uF 35V - done
C17 (J4) 33uF 25V - done
C1 470uF 50V - done
C37 470uF 63V - done
C44 470uF 25V - done
C40 470uF 50V - done
C3 100uF 35V - done
C4 100uF 35V - done
C49 1000uF 25V - done
C54 1000uF 25V - done
C55 1000uF 25V - done
C57 1000uF 25V - done
C61 1000uF 25V - done
C34 2200uF 10V - done
C35 2200uF 10V - done
C48 2200uF 25V - done
C62 2200uF 10V - done
C65 2200uF 10V - done
C66 2200uF 10V - done
C69 2200uF 10V - done
C70 2200uF 10V - done
C72 2200uF 10V - done

73s de chris zl1cvd

# 1975. Re: [hp8924] 8924C Power Supply

Yahoo group: hp8924
Date: 2014-12-14 10:26:12 UTC
From: Ralph Mowery
Topic: 1307  Message: 1975

That is similar to what my 8924c was doing.  It just would not do anything unless I plugged it in for about half an hour before turning it on.  Replaced the power supply module with one from Amtronix and it now comes on when fiirst plugged in and the power switch is pushed.
I hope you have a power screwdriver as there are lots of screws to take out.

From: "wb6dgn_tom@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Sunday, December 14, 2014 12:34 AM
Subject: [hp8924] 8924C Power Supply

<!--#yiv2336184422 #yiv2336184422 .yiv2336184422ygrp-photo-title{clear:both;font-size:smaller;height:15px;overflow:hidden;text-align:center;width:75px;}#yiv2336184422 div.yiv2336184422ygrp-photo{background-position:center;background-repeat:no-repeat;background-color:white;border:1px solid black;height:62px;width:62px;}#yiv2336184422 div.yiv2336184422photo-title a, #yiv2336184422 div.yiv2336184422photo-title a:active, #yiv2336184422 div.yiv2336184422photo-title a:hover, #yiv2336184422 div.yiv2336184422photo-title a:visited {text-decoration:none;}#yiv2336184422 div.yiv2336184422attach-table div.yiv2336184422attach-row {clear:both;}#yiv2336184422 div.yiv2336184422attach-table div.yiv2336184422attach-row div {float:left;}#yiv2336184422 p {clear:both;padding:15px 0 3px 0;overflow:hidden;}#yiv2336184422 div.yiv2336184422ygrp-file {width:30px;}#yiv2336184422 div.yiv2336184422attach-table div.yiv2336184422attach-row div div a {text-decoration:none;}#yiv2336184422 div.yiv2336184422attach-table div.yiv2336184422attach-row div div span {font-weight:normal;}#yiv2336184422 div.yiv2336184422ygrp-file-title {font-weight:bold;}#yiv2336184422 --> <!--#yiv2336184422 #yiv2336184422ygrp-mkp {border:1px solid #d8d8d8;font-family:Arial;margin:10px 0;padding:0 10px;}#yiv2336184422 #yiv2336184422ygrp-mkp hr {border:1px solid #d8d8d8;}#yiv2336184422 #yiv2336184422ygrp-mkp #yiv2336184422hd {color:#628c2a;font-size:85%;font-weight:700;line-height:122%;margin:10px 0;}#yiv2336184422 #yiv2336184422ygrp-mkp #yiv2336184422ads {margin-bottom:10px;}#yiv2336184422 #yiv2336184422ygrp-mkp .yiv2336184422ad {padding:0 0;}#yiv2336184422 #yiv2336184422ygrp-mkp .yiv2336184422ad p {margin:0;}#yiv2336184422 #yiv2336184422ygrp-mkp .yiv2336184422ad a {color:#0000ff;text-decoration:none;}-->

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All suggestions and advice greatly appreciated!
Tom

# 1976. What should I do with my 8924E?

Yahoo group: hp8924
Date: 2014-12-14 14:13:57 UTC
From: wpxs472@...
Topic: 1976  Message: 1976

A few years ago, 8924s and service monitors in general took a big dip in price on eBay. I had an old Marconi that was getting terribly long in the tooth. So, I bought an 8924C. Shortly thereafter, I saw another 8924 really cheap, best I can remember, under two hundred, so I bought it. It turned out to be an 8924E which isn't very useful. So, I kept it as an organ donor for the "C". Well, I hardly turn the "C" on any more, not much radio work going on these days. Since I am getting somewhat long in the tooth too, I thought about either listing the "E" on eBay or maybe even parting it out and selling the pieces. Which would be a better way to go?

# 1977. Re: [hp8924] What should I do with my 8924E?

Yahoo group: hp8924
Date: 2014-12-14 16:10:52 UTC
From: Robert Atkinson
Topic: 1976  Message: 1977

Hi,Does it have option 102, the spectrum analyser? This make a big difference. Even without opt 102 it's similar in capability to the Marconi 2955 if a little bigger :-)Amtronix sell tham for $700. Where are you located?

Robert G8RPI.

From: "wpxs472@... [hp8924]" <hp8924@...m>
To: hp8924@yahoogroups.com
Sent: Sunday, 14 December 2014, 14:13
Subject: [hp8924] What should I do with my 8924E?

A few years ago, 8924s and service monitors in general took a big dip in price on eBay. I had an old Marconi that was getting terribly long in the tooth. So, I bought an 8924C. Shortly thereafter, I saw another 8924 really cheap, best I can remember, under two hundred, so I bought it. It turned out to be an 8924E which isn't very useful. So, I kept it as an organ donor for the "C". Well, I hardly turn the "C" on any more, not much radio work going on these days. Since I am getting somewhat long in the tooth too, I thought about either listing the "E" on eBay or maybe even parting it out and selling the pieces. Which would be a better way to go?

# 1978. Re: HP8920A Help

Yahoo group: hp8924
Date: 2014-12-14 23:23:50 UTC
From: sanjaya_t@...
Topic: 1969  Message: 1978

Thank you for the suggestion onthe weekend i will try to wash and clean all the suspect board with the alcohol.. When test power supply is done in the measurement board i want to know is the voltage reference must be the same with the actual voltaga for exp: +12v what should be show in the Lower/upper/Actual ???

De
YC8AX

# 1979. Re: What should I do with my 8924E?

Yahoo group: hp8924
Date: 2014-12-15 00:05:00 UTC
From: wb6dgn_tom@...
Topic: 1976  Message: 1979

Well...since I may be in need of a power supply, how much do you want to get for it and, for shipping estimate, where are you located? Please contact me via eMail address below.

Ralph,
After having built a boat kit years ago with over 1400 brass wood screws to put in it, I am somewhat numb to wielding a screwdriver but, yes, I do have several power ones that I, very cautiously, use. Modern conveniences that were rare when I built the boat!

Chris,
Thanks very much for the list. That'll be a big help. Did you use Low ESR types or run-of-the-mill caps.?

Tom wb <six> dgn <at> att.net

# 1980. Re: What should I do with my 8924E?

Yahoo group: hp8924
Date: 2014-12-15 15:42:59 UTC
From: wpxs472@...
Topic: 1976  Message: 1980

Well, I don't really know what it is worth. The last time I fired it up, it booted OK and the screen seemed a little better than my "C" model. I live in North East Alabama. If I were to part it out, the shipping for an assembly wouldn't be all that much. It doesn't have option 102. My "C" doesn't have it either. A spectrum analyzer isn't something I use a lot. It does come in handy when you need one though. If I were to sell it whole, shipping would be a pain. I wouldn't ship it in a way where it might get damaged and doing it right isn't easy, but if that is what it takes, well.

# 1981. Re: What should I do with my 8924E?

Yahoo group: hp8924
Date: 2014-12-15 20:33:02 UTC
From: jyelmgren@...
Topic: 1976  Message: 1981

The 8924c had the the spectrum analyzer option standard which also includes the tracking generator.

The tracking gen is a lot more flexible than most.

Should be there unless someone pulled it and installed the terminator card in it's place.

# 1982. Re: What should I do with my 8924E?

Yahoo group: hp8924
Date: 2014-12-16 01:35:42 UTC
From: irlp3358@...
Topic: 1976  Message: 1982

You can always go with option C which is donate it to the list owner.

:-)

Ray
K6PNG

# 1983. Re: What should I do with my 8924E?

Yahoo group: hp8924
Date: 2014-12-16 02:18:09 UTC
From: wb6dgn_tom@...
Topic: 1976  Message: 1983

You're right. Shipping would be a deal-breaker. If you do decide to part it out, I would like to buy the power supply. As the "first responder", please keep me in mind.
Thanks,
Tom

# 1984. 8920B PCMCIA and Software loading Help Requested.

Yahoo group: hp8924
Date: 2014-12-22 18:25:41 UTC
From: rhyolite@...
Topic: 1984  Message: 1984

I have an 8920B and have 11807E software that I had previously moved to
a PCMCIA SRAM card. Unfortunately once again, the SRAM battery has died
I have since changed lap tops, and I cannot find a PC program to
transfer these files to the card. I would like to transfer to PCMCIA
FLASH card, but cannot figure out how to do it. Also, I need help
determining compatible FLASH cards. I posted this problem a while back and was promised
detailed instructions on how to do this but never heard back from the individual.

Better yet, perhaps there is a specific PCMCIA (slot) to CF SD (card) adapter that would
solve this problem for me. If anyone has been successful using this method, please share,
because I would prefer to avoid PCMCIA cards due to difficulty in supporting that format.
Any help here would be much appreciated.

# 1985. Re: [hp8924] 8920B PCMCIA and Software loading Help Requested.

Yahoo group: hp8924
Date: 2014-12-22 21:44:44 UTC
From: Robert Atkinson
Topic: 1984  Message: 1985

Hi,I can provide the 11807E files programmed onto a PCMCIA flash card.
The cost to list members is 40 UK pounds including postage. Cotact me off list
robert8rpi(at)yahoo(dot)co(dot)uk
unfortunatly ELAN, who made suitable programming adaptors and software have gone out of business.
Robert G8RPI.
From: "rhyolite@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Monday, 22 December 2014, 18:25
Subject: [hp8924] 8920B PCMCIA and Software loading Help Requested.

I have an 8920B and have 11807E software that I had previously moved to a PCMCIA SRAM card. Unfortunately once again, the SRAM battery has died I have since changed lap tops, and I cannot find a PC program to transfer these files to the card. I would like to transfer to PCMCIA FLASH card, but cannot figure out how to do it. Also, I need help determining compatible FLASH cards.  I posted this problem a while back and was promised detailed instructions on how to do this but never heard back from the individual.

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# 1986. Re: 8920B PCMCIA and Software loading Help Requested.

Yahoo group: hp8924
Date: 2014-12-23 05:17:38 UTC
From: mojoehand@...
Topic: 1984  Message: 1986

If you search back through the messages here, you will find recommended cards and ways to transfer the files. BTW, the files are posted here in the Files section. If you would rather not bother, then take Robert up on his offer.

Joe Gray
W5JG

# 1987. Re: 8920B PCMCIA and Software loading Help Requested.

Yahoo group: hp8924
Date: 2014-12-23 10:08:26 UTC
From: zl1cvd@...
Topic: 1984  Message: 1987

Or eBay item 121525617358..

# 1988. Re: 8920B PCMCIA and Software loading Help Requested.

Yahoo group: hp8924
Date: 2014-12-23 17:57:06 UTC
From: rhyolite@...
Topic: 1984  Message: 1988

Thanks C Dav

# 1989. Re: 8920B PCMCIA and Software loading Help Requested.

Yahoo group: hp8924
Date: 2014-12-23 17:57:52 UTC
From: rhyolite@...
Topic: 1984  Message: 1989

Thanks Robert

# 1990. Re: 8920B PCMCIA and Software loading Help Requested.

Yahoo group: hp8924
Date: 2014-12-23 19:28:48 UTC
From: rhyolite@...
Topic: 1984  Message: 1990

Joe;
Actually I have long been following all the threads on this subject and there is no comprehensive tutorial of the subject as far as I can tell. I am prepared to buy "off shore" but prefer to have techniques available to me. I am just funny that way. Example: Despite Stereo Studio's great service department, I insisted on having schematics for my brand new Denon power amp in 1976 and low and behold in 1985 after I moved far away I had to fix it with a $4 regulator transistor!

I have loaded my SRAM card in the past so the concept is not foreign to me. The problem, I am having is with the FLASH and I am slowly learning but still have gaps.

1) The FLASH must be linear type and if it has a 12V write/erase, requires a PC with compatible adapter to write to it. The test set does not care when reading the card if the read voltage is 5V. I will still need my SRAM to write data FROM the test set.

2) The test set expects "DOS" or LIF formatted media. In past I have initialized my SRAM using the facility of the test set. Because the test set cannot write 12V to FLASH it cannot be initialized. This raises the question how to format to "DOS" that is expected by the 8920B using WIN XP? FAT, NTFS??? This may be the problem I am having. Especially since WINXP does not seen to see the uninitialized card and assign a drive letter.

3) I have a pile of PCMCIA FLASH cards, many are ATA, those I will put aside. The others were pulls, probably from routers and I can only assume they are linear, but the voltage is unknown. If I were to buy a linear FLASH card, what nomenclature would be best to look for?

4) I have MCE installed on an old COMPAQ computer, but have had little luck in copying files. It seems I cannot write to the cards.

So yes, despite the many threads on this now difficult to search yahoo-neo group, I am still stumped and still want to make it work.

# 1991. Re: [hp8924] Re: 8920B PCMCIA and Software loading Help Requested.

Yahoo group: hp8924
Date: 2014-12-23 20:07:44 UTC
From: Robert Atkinson
Topic: 1984  Message: 1991

Hi,Your problem is almost certainly that the Compaq computer does not support 12V programming properly, if at all. As you have said, ATA cards (and CF in adaptors) will not work. While the 892x only uses 5V, the only FLASH cards I have found to work are "raw" 12V ones. 5V ones (including those with on-board 12v converters) don't seem to work. As HP never published the specification for the cards it's hard to be sure exactly why. I have about a dozen PCs with built in PCMCIA slots, mostly laptops, ranging from a $10,000 mil-spec unit to simple 386's. Only two of these will program 12V cards. I bought a second back-up laptop of one of the models that worked, but dispite the same model number, it won't program 12V cards. The other option is to buy an ELAN linear PCMCIA programming adaptor. The external ones are expensive and ELAN have gone out of business. If buying an internal adaptor, make sure it is a full function one. Many of the internal adaptors on sale are "stripped down" versions that were designed to allow PCMCIA network cards to be used in desktops.  Many of these won't even read a memory card, never mind program 12V Flash. Anyone want do buy a box of programming adaptors and PCMCIA cards that are guaranteed NOT to work :-)

Happy Holidays,Robert G8RPI.

From: "rhyolite@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Tuesday, 23 December 2014, 19:28
Subject: [hp8924] Re: 8920B PCMCIA and Software loading Help Requested.

  Joe;
Actually I have long been following all the threads on this subject and there is no comprehensive tutorial of the subject as far as I can tell. I am prepared to buy "off shore" but prefer to have techniques available to me. I am just funny that way. Example: Despite Stereo Studio's great service department,  I insisted on having schematics for my brand new Denon power amp in 1976 and low and behold in 1985 after I moved far away I had to fix it with a $4 regulator transistor!

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So yes, despite the many threads on this now difficult to search yahoo-neo group, I am still stumped and still want to make it work.

# 1992. 8935 RF Tools Kit

Yahoo group: hp8924
Date: 2014-12-27 13:52:18 UTC
From: wallydoc@...
Topic: 1992  Message: 1992

I recently purchased a HP 8935 in great shape.
As a result I am probably going to sell my Marconi 400MHz Spectrum with tracking.
I am now looking for the accessory kit that contains RF bridge and resistive divider and attenuators etc.
Any info would be helpful
Wally KC9INK

# 1993. RE: [hp8924] 8935 RF Tools Kit

Yahoo group: hp8924
Date: 2014-12-27 20:30:42 UTC
From: Adam Farson
Topic: 1992  Message: 1993

Hi Wally,

I also have an Agilent 8935 which is like new. Your Marconi SA has one advantage over the 8935; its minimum RBW is 3 Hz, whilst the SA function in the 8935 has 300 Hz minimum RBW. Thus, I would recommend that you hold onto both instruments.

You can purchase the accessories individually. Amtronix have an excellent RLB, Model SW2012N. These, as well as the Eagle equivalent, sometimes show up on eBay.

http://www.amtronix.com/

A less costly alternative, although not as accurate, is a Mini-Circuits (MCL) ZFDC-20-5 directional coupler with N fittings. The MCL ZFRSC-2050-N is a suitable resistive splitter. You can also order N-type attenuators and terminations from MCL.

73, Adam VA7OJ/AB4OJ

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com]
Sent: 27-Dec-14 05:52
To: hp8924@yahoogroups.com
Subject: [hp8924] 8935 RF Tools Kit

I recently purchased a HP 8935 in great shape.
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I am now looking for the accessory kit that contains RF bridge and resistive divider and attenuators etc.
Any info would be helpful
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# 1994. HP 8935 external monitor

Yahoo group: hp8924
Date: 2015-01-06 19:01:32 UTC
From: wallydoc@...
Topic: 1994  Message: 1994

Anyone know what sort of external monitor works with HP8935?
I think the manual states 19.2 kHz
I am also looking for a suitable RF directional bridge, divider and termination for use with RF tools, if anyone is willing to part with any of these.
Wally KC9INK

# 1995. Re: [hp8924] HP 8935 external monitor

Yahoo group: hp8924
Date: 2015-01-06 20:04:41 UTC
From: Robert Atkinson
Topic: 1994  Message: 1995

Hi, An original NEC MultiSync, if you can find oneAlternatively you can use a scan converter which will drive a standard VGA/SVGA monitor. The Gonbes 8200 (or 8220 which will drive two monitors) is one example. It's a bare board, not plug and play. You need to make up a sync separator, either a LM1881 chip (no adjustment) or a comparator and preset pot. Search the group for Gonbes. These boards were designed for converting old arcade games to LCD VGA screens. There are many sellers on ebay. You can buy plug and play solutions that come boxed up but they cost more. Search for CGA to VGA converter. Ebay item 321299448184 looks like it will be OK from the spec, but I've only used the Gonbes personally.
What frequency range and performance do you need from your rf bridge?
Robert G8RPI.

From: "wallydoc@yahoo.com [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Tuesday, 6 January 2015, 19:01
Subject: [hp8924] HP 8935 external monitor

Anyone know what sort of external monitor works with HP8935?I think the manual states 19.2 kHz I am also looking for a suitable RF directional bridge, divider and termination for use with RF tools, if anyone is willing to part with any of these.Wally KC9INK

# 1996. Re: [hp8924] HP 8935 external monitor

Yahoo group: hp8924
Date: 2015-01-06 20:25:05 UTC
From: Ralph Mowery
Topic: 1994  Message: 1996

This converter is suspose to work with the 8924c. but I have not tried it.http://www.moncotech.com/cnc.php

I use a RLB like this from Mini-circuits.  They are less than $ 100.  Compaired it to the more expensive units and it seems to be plenty good enough to tune duplexers.  They also make a resistive coupler but I don't recall the numbers on it.
Using the 8924 with a Mini-Circuits ZFDC-20-5 to measure return loss.
The first thing to do is to configure the 8924 for "duplex out" and"antenna in"and set up the tracking generator for no offset. To measurereturn loss hook the "duplex out" on the generator to the "out" connectionof the directional coupler. Then hook the "antenna in" port to "couple" ofthe directional coupler. You can now establish the base line on the spectrumanalyzer as this will show infinite SWR or minimum return loss. It shouldread about 20 db less than what you are generating. Once you've done thisconnect the load or device under test to the "in" port of the coupler. Thespace under the base line on the spectrum analyzer is the return loss innegative db. (Note: this may be counter intuitive to some but we're usingthe directional coupler to measure what's coming back as apposed to what'sgoing out which is what the labels on it are for.)
I have found some low power dummy loads on ebay that are rated for a very low RL.  Usually a
BNC or N connector.  They may also be called 50 ohm terminators.  Just make sure they are rated for a low RL and not just general terminators.

From: "wallydoc@yahoo.com [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Tuesday, January 6, 2015 2:01 PM
Subject: [hp8924] HP 8935 external monitor


<!--#yiv6656875812 #yiv6656875812 .yiv6656875812ygrp-photo-title{clear:both;font-size:smaller;height:15px;overflow:hidden;text-align:center;width:75px;}#yiv6656875812 div.yiv6656875812ygrp-photo{background-position:center;background-repeat:no-repeat;background-color:white;border:1px solid black;height:62px;width:62px;}#yiv6656875812 div.yiv6656875812photo-title a, #yiv6656875812 div.yiv6656875812photo-title a:active, #yiv6656875812 div.yiv6656875812photo-title a:hover, #yiv6656875812 div.yiv6656875812photo-title a:visited {text-decoration:none;}#yiv6656875812 div.yiv6656875812attach-table div.yiv6656875812attach-row {clear:both;}#yiv6656875812 div.yiv6656875812attach-table div.yiv6656875812attach-row div {float:left;}#yiv6656875812 p {clear:both;padding:15px 0 3px 0;overflow:hidden;}#yiv6656875812 div.yiv6656875812ygrp-file {width:30px;}#yiv6656875812 div.yiv6656875812attach-table div.yiv6656875812attach-row div div a {text-decoration:none;}#yiv6656875812 div.yiv6656875812attach-table div.yiv6656875812attach-row div div span {font-weight:normal;}#yiv6656875812 div.yiv6656875812ygrp-file-title {font-weight:bold;}#yiv6656875812 --> <!--#yiv6656875812 #yiv6656875812ygrp-mkp {border:1px solid #d8d8d8;font-family:Arial;margin:10px 0;padding:0 10px;}#yiv6656875812 #yiv6656875812ygrp-mkp hr {border:1px solid #d8d8d8;}#yiv6656875812 #yiv6656875812ygrp-mkp #yiv6656875812hd {color:#628c2a;font-size:85%;font-weight:700;line-height:122%;margin:10px 0;}#yiv6656875812 #yiv6656875812ygrp-mkp #yiv6656875812ads

{margin-bottom:10px;}#yiv6656875812 #yiv6656875812ygrp-mkp .yiv6656875812ad {padding:0 0;}#yiv6656875812 #yiv6656875812ygrp-mkp .yiv6656875812ad p {margin:0;}#yiv6656875812 #yiv6656875812ygrp-mkp .yiv6656875812ad a {color:#0000ff;text-decoration:none;}-->

Anyone know what sort of external monitor works with HP8935?I think the manual states 19.2 kHz I am also looking for a suitable RF directional bridge, divider and termination for use with RF tools, if anyone is willing to part with any of these.Wally KC9INK

# 1997. Re: [hp8924] HP 8935 external monitor

Yahoo group: hp8924
Date: 2015-01-06 20:27:03 UTC
From: Ralph S. Turk
Topic: 1994  Message: 1997

I am using an old glass 17" NTSC monitor that had adjustable Horiz and vert osc. It works just fine. Some day
when all the radios are working I will convert to a LCD flat screen.

----- Original Message -----

From: "wallydoc@... [hp8924]" <hp8924@yahoogroups.com>
To: "hp8924" <hp8924@yahoogroups.com>
Sent: Tuesday, January 6, 2015 12:01:32 PM
Subject: [hp8924] HP 8935 external monitor

Anyone know what sort of external monitor works with HP8935?

I think the manual states 19.2 kHz

I am also looking for a suitable RF directional bridge, divider and termination for use with RF tools, if anyone is willing to part with any of these.

Wally KC9INK

# 1998. RE: [hp8924] HP 8935 external monitor

Yahoo group: hp8924
Date: 2015-01-06 20:38:31 UTC
From: Adam Farson
Topic: 1994  Message: 1998

Hi Wally,

Excerpt from the 8935 E6380 Reference Guide, p. 292:

VIDEO OUT
This connector provides a signal for using an external video monitor. The signal provides a duplicate of the Test Set’s screen.

Operating Considerations
The CRT’s Video Output drives a multisync monitor at 19.2 kHz (analog). Examples of this type of monitor include the Electrohome ECM 1410-DMS 14-inch color monitor and the EVM 1242-P4VID 12-inch monochrome monitor.

The Mini-Circuits parts I mentioned in my previous post will work quite well with RFTools at reasonable cost. You can often find these components on eBay.

73, Adam VA7OJ/AB4OJ

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com]
Sent: 6-Jan-15 11:02
To: hp8924@yahoogroups.com
Subject: [hp8924] HP 8935 external monitor

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I am also looking for a suitable RF directional bridge, divider and termination for use with RF tools, if anyone is willing to part with any of these.
Wally KC9INK

# 1999. Re: [hp8924] HP 8935 external monitor

Yahoo group: hp8924
Date: 2015-01-08 04:51:39 UTC
From: ku4pt@...
Topic: 1994  Message: 1999

Hi Robert,

Do you have a drawing on how to hook the 1881 chip to the 8200 converter board ?
I looked in the files area and all I saw was for the other type of sync seperator chip.

73 de Ralph

# 2000. Re: [hp8924] HP 8935 external monitor

Yahoo group: hp8924
Date: 2015-01-08 07:23:51 UTC
From: Robert Atkinson
Topic: 1994  Message: 2000

Hi Ralph,Use the circuit from fig 1 of the LM1881 data sheet http://www.ti.com/lit/ds/symlink/lm1881.pdf connect the LM1881 video input (0.1uF to pin 2) in parallel twith the 8200 video input. Composite sync (pin 1) to the 8200 H sync input, Vertical sync (pin 3) to the 8200 V sunc input. HTH,Rbobert G8RPI.

From: "ku4pt@yahoo.com [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Thursday, 8 January 2015, 4:51
Subject: Re: [hp8924] HP 8935 external monitor

Hi Robert,
Do you have a drawing on how to hook the 1881 chip to the 8200 converter board ?I looked in the files area and all I saw was for the other type of sync seperator chip.
73 de Ralph

# 2001. Re: [hp8924] HP 8935 external monitor

Yahoo group: hp8924
Date: 2015-01-08 17:18:04 UTC
From: Ralph Mowery
Topic: 1994  Message: 2001

Thanks Robert.  I placed an order for one of the 8200 boards and some lm1881 chips.
 Probably will take a couple of weeks to get here form China.  So far I have had good luck with the small items from China.
I don't get into building any big things, but do like to put together some small things that have less than 20 parts in them.
I did a quick read of the chip and it seems that the resistor has something to do with the sync rates (whatever they are called).  Did you change the value or just use what is on that data sheet ?  I have a good general back gound in electronics, but video has never interisted me.
I know what I have been told about the shipping and their government, but still do not see how they can even ship things here for what they do.  Not sure what it costs where you are, but it costs $ 1.10 to get a stamp just to send a letter out of the US to another country, and fourty some cents for a first class letter in the US.
thanks,and 73de Ralph

From: "Robert Atkinson robert8rpi@... [hp8924]" <hp8924@yahoogroups.com>
To: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
Sent: Thursday, January 8, 2015 2:23 AM
Subject: Re: [hp8924] HP 8935 external monitor

# 2002. Re: [hp8924] HP 8935 external monitor

Yahoo group: hp8924
Date: 2015-01-08 18:39:15 UTC
From: Robert Atkinson
Topic: 1994  Message: 2002

Hi Ralph,I just used the default values. If you want a green srcreen connect to the green input only. If you want white connect to RG&B in parallel. The are also some notes from others on resistor value changes.
Regards,Robert G8RPI.

From: "Ralph Mowery ku4pt@... [hp8924]" <hp8924@yahoogroups.com>
To: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
Sent: Thursday, 8 January 2015, 17:18
Subject: Re: [hp8924] HP 8935 external monitor

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I know what I have been told about the shipping and their government, but still do not see how they can even ship things here for what they do.  Not sure what it costs where you are, but it costs $ 1.10 to get a stamp just to send a letter out of the US to another country, and fourty some cents for a first class letter in the US.
thanks,and 73de Ralph

From: "Robert Atkinson robert8rpi@... [hp8924]" <hp8924@yahoogroups.com>
To: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
Sent: Thursday, January 8, 2015 2:23 AM
Subject: Re: [hp8924] HP 8935 external monitor

Hi Ralph,Use the circuit from fig 1 of the LM1881 data sheet http://www.ti.com/lit/ds/symlink/lm1881.pdf connect the LM1881 video input (0.1uF to pin 2) in parallel twith the 8200 video input. Composite sync (pin 1) to the 8200 H sync input, Vertical sync (pin 3) to the 8200 V sunc input. HTH,Rbobert G8RPI.

# 2003. Re: [hp8924] HP 8935 external monitor

Yahoo group: hp8924
Date: 2015-01-09 12:02:51 UTC
From: Ross Johnson
Topic: 1994  Message: 2003

Hey Ralph what model??? Did you just have to adjust H and V sync?

Ross

From: mailto:hp8924@yahoogroups.com
Sent: Tuesday, January 6, 2015 12:27 PM
To: hp8924
Subject: Re: [hp8924] HP 8935 external monitor

I am using an old glass 17" NTSC monitor that had adjustable Horiz and vert osc. It works just fine. Some day

when all the radios are working I will convert to a LCD flat screen.

---

From: "wallydoc@... [hp8924]" <hp8924@yahoogroups.com>
To: "hp8924" <hp8924@yahoogroups.com>
Sent: Tuesday, January 6, 2015 12:01:32 PM
Subject: [hp8924] HP 8935 external monitor

Anyone know what sort of external monitor works with HP8935?

I think the manual states 19.2 kHz

I am also looking for a suitable RF directional bridge, divider and termination for use with RF tools, if anyone is willing to part with any of these.

Wally KC9INK

# 2004. Re: [hp8924] HP 8935 external monitor

Yahoo group: hp8924
Date: 2015-01-09 14:35:19 UTC
From: Ralph S. Turk
Topic: 1994  Message: 2004

Ross
I am using a old black & white teleprompter monitor. I am in Montana until next weekend and don't remember the
brand. I just adjusted the Horiz osc coil for best lock. I had to change a capacitor in the Horiz osc to
move the lock toward the center of the coil. The vertical had plenty of range.
Ralph

To: "hp8924" <hp8924@yahoogroups.com>
Sent: Friday, January 9, 2015 5:02:51 AM
Subject: Re: [hp8924] HP 8935 external monitor

Hey Ralph what model??? Did you just have to adjust H and V sync?
Ross
From: mailto:hp8924@yahoogroups.com
Sent: Tuesday, January 6, 2015 12:27 PM
To: hp8924
Subject: Re: [hp8924] HP 8935 external monitor

I am using an old glass 17" NTSC monitor that had adjustable Horiz and vert osc. It works just fine. Some day
when all the radios are working I will convert to a LCD flat screen.
----- Original Message -----

From: "wallydoc@... [hp8924]" <hp8924@yahoogroups.com>
To: "hp8924" <hp8924@yahoogroups.com>
Sent: Tuesday, January 6, 2015 12:01:32 PM
Subject: [hp8924] HP 8935 external monitor

Anyone know what sort of external monitor works with HP8935?

I think the manual states 19.2 kHz

I am also looking for a suitable RF directional bridge, divider and termination for use with RF tools, if anyone is willing to part with any of these.

Wally KC9INK

# 2005. E8285A setup

Yahoo group: hp8924
Date: 2015-01-12 18:10:16 UTC
From: N1BUG
Topic: 2005  Message: 2005

Hi,

I have been lurking here for a while. I am still getting to know my E8285A and have a question.

I am using an outboard 30 dB attenuator so I can check transmitters running more than the 2.5W input limit of the E8285A. This of course works fine but every time I turn the unit on I have to go into Setup to toggle RF Level Offset to ON, and enter the offset level (-30.5 dB measured) for RF Input. If there is a way to save this so I don't have to enter it every time (without messing up other things, such as the unit being configured to come up in analog mode each time) could someone tell me how to do it?

73,
Paul N1BUG

# 2006. Re: [hp8924] E8285A setup

Yahoo group: hp8924
Date: 2015-01-12 18:29:10 UTC
From: Ralph Mowery
Topic: 2005  Message: 2006

I don't know about the 8285, but as it is similar to the 8924 you might try this.  Set it up the way you want it, then store it as the POWERON setting.
To do this, go here and follow the step #4 after you get your 8285 set the way you want it to power up as.
poweron

|  |
|  |  |  |  |  |
| poweronMake your HP 8924C Turn onlike an 8920B Whenyouturnontheunit, the RX test screen should appear on the display afterthe“8924C” screen. |
| |
| View on www.amtronix.com | Preview by Yahoo |
| |
|  |

From: "N1BUG paul@n1bug.com [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Monday, January 12, 2015 1:10 PM
Subject: [hp8924] E8285A setup

Hi,

I have been lurking here for a while. I am still getting to know my E8285A and have a question.

I am using an outboard 30 dB attenuator so I can check transmitters running more than the 2.5W input limit of the E8285A. This of course works fine but every time I turn the unit on I have to go into Setup to toggle RF Level Offset to ON, and enter the offset level (-30.5 dB measured) for RF Input. If there is a way to save this so I don't have to enter it every time (without messing up other things, such as the unit being configured to come up in analog mode each time) could someone tell me how to do it?

73,
Paul N1BUG

# 2007. Re: [hp8924] E8285A setup

Yahoo group: hp8924
Date: 2015-01-12 18:29:39 UTC
From: Robert Atkinson
Topic: 2005  Message: 2007

Hi Paul,Welcome. This is based on the 8924, but it's worth trying on the E8285A.  The test set will store configurations. If you name a configuration "POWERON" it will be loaded at power on. Set up the test set as you want it then press the Blue Shift Key, then the Store Key. Use the main scrolling knob to select the letters  POWERON, one letter at a time. Scroll to the top and  select  “Done”. This completes the POWERON setup procedure.
HTH,Robert G8RPI

From: "N1BUG paul@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Monday, 12 January 2015, 18:10
Subject: [hp8924] E8285A setup

Hi,

I have been lurking here for a while. I am still getting to know my E8285A and have a question.

I am using an outboard 30 dB attenuator so I can check transmitters running more than the 2.5W input limit of the E8285A. This of course works fine but every time I turn the unit on I have to go into Setup to toggle RF Level Offset to ON, and enter the offset level (-30.5 dB measured) for RF Input. If there is a way to save this so I don't have to enter it every time (without messing up other things, such as the unit being configured to come up in analog mode each time) could someone tell me how to do it?

73,
Paul N1BUG

# 2008. RE: [hp8924] E8285A setup

Yahoo group: hp8924
Date: 2015-01-12 18:48:42 UTC
From: Brian Swann
Topic: 2005  Message: 2008

Yep, if I remember correctly it works the same on the E8285A. I will also mention that you can store the setup under another name, and recall it easily, but it won't come up at power on.

Brian
n1bs

-------- Original message --------
From: "Robert Atkinson robert8rpi@... [hp8924]" <hp8924@yahoogroups.com>
Date: 01/12/2015 1:29 PM (GMT-05:00)
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] E8285A setup

Hi Paul,Welcome. This is based on the 8924, but it's worth trying on the E8285A. The test set will store configurations. If you name a configuration "POWERON" it will be loaded at power on. Set up the test set as you want it then press the Blue Shift Key, then the Store Key. Use the main scrolling knob to select the letters POWERON, one letter at a time. Scroll to the top and select “Done”. This completes the POWERON setup procedure.
HTH,Robert G8RPI

From: "N1BUG paul@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Monday, 12 January 2015, 18:10
Subject: [hp8924] E8285A setup

Hi,

I have been lurking here for a while. I am still getting to know my E8285A and have a question.

I am using an outboard 30 dB attenuator so I can check transmitters running more than the 2.5W input limit of the E8285A. This of course works fine but every time I turn the unit on I have to go into Setup to toggle RF Level Offset to ON, and enter the offset level (-30.5 dB measured) for RF Input. If there is a way to save this so I don't have to enter it every time (without messing up other things, such as the unit being configured to come up in analog mode each time) could someone tell me how to do it?

73,
Paul N1BUG

# 2009. Re: [hp8924] E8285A setup

Yahoo group: hp8924
Date: 2015-01-12 22:39:32 UTC
From: N1BUG
Topic: 2005  Message: 2009

Thanks guys!

Setting up the parameters and saving it as POWERON worked perfectly. I also discovered it saves just about the entire instrument setup, which is most helpful. I included a few other settings that I found myself changing on every startup.

73,
Paul N1BUG

# 2010. Re: [hp8924] E8285A setup

Yahoo group: hp8924
Date: 2015-01-13 04:18:12 UTC
From: Ralph Mowery
Topic: 2005  Message: 2010

I thought it would be the same as the 8924 or very similar.  You should be able to set the 8285 most any way and save it as POWERON  and the next time it will come up that way.  You can also set it up for other ways and save it under a name of your choice and recall it the same way.  Makes it easy to have your most common setups in memory.Anytime you want to you can recall those setups in the same way.
When the set first comes on it boots up in the standard mode for it, but will check to see if you have saved a setup as POWERON.  If so, it comes up in whatever was saved as poweron. Becareful and don't erase those memories.  No harm will be done, but you will have to enter them in again if you want to.  If you do not want it to come up with the poweron setting, either delete it or just rename it if you want to save it for later use.

From: "N1BUG paul@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Monday, January 12, 2015 5:39 PM
Subject: Re: [hp8924] E8285A setup

<!--#yiv2125667039 #yiv2125667039 .yiv2125667039ygrp-photo-title{clear:both;font-size:smaller;height:15px;overflow:hidden;text-align:center;width:75px;}#yiv2125667039 div.yiv2125667039ygrp-photo{background-position:center;background-repeat:no-repeat;background-color:white;border:1px solid black;height:62px;width:62px;}#yiv2125667039 div.yiv2125667039photo-title a, #yiv2125667039 div.yiv2125667039photo-title a:active, #yiv2125667039 div.yiv2125667039photo-title a:hover, #yiv2125667039 div.yiv2125667039photo-title a:visited {text-decoration:none;}#yiv2125667039 div.yiv2125667039attach-table div.yiv2125667039attach-row {clear:both;}#yiv2125667039 div.yiv2125667039attach-table div.yiv2125667039attach-row div {float:left;}#yiv2125667039 p {clear:both;padding:15px 0 3px 0;overflow:hidden;}#yiv2125667039 div.yiv2125667039ygrp-file {width:30px;}#yiv2125667039 div.yiv2125667039attach-table div.yiv2125667039attach-row div div a {text-decoration:none;}#yiv2125667039 div.yiv2125667039attach-table div.yiv2125667039attach-row div div span {font-weight:normal;}#yiv2125667039 div.yiv2125667039ygrp-file-title {font-weight:bold;}#yiv2125667039 -->

Thanks guys!

Setting up the parameters and saving it as POWERON worked perfectly. I also discovered it saves just about the entire instrument setup, which is most helpful. I included a few other settings that I found myself changing on every startup.

73,
Paul N1BUG

--

# 2011. Re: [hp8924] E8285A setup

Yahoo group: hp8924
Date: 2015-01-13 07:22:25 UTC
From: Robert Atkinson
Topic: 2005  Message: 2011

Hi Ralph,Looks like you and I had a dead heat on that one, I looked at the times and they both say 18:29 (UTC) Robert.
From: "Ralph Mowery ku4pt@... [hp8924]" <hp8924@yahoogroups.com>
To: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
Sent: Tuesday, 13 January 2015, 4:18
Subject: Re: [hp8924] E8285A setup

I thought it would be the same as the 8924 or very similar. You should be able to set the 8285 most any way and save it as POWERON and the next time it will come up that way. You can also set it up for other ways and save it under a name of your choice and recall it the same way. Makes it easy to have your most common setups in memory.Anytime you want to you can recall those setups in the same way.
When the set first comes on it boots up in the standard mode for it, but will check to see if you have saved a setup as POWERON. If so, it comes up in whatever was saved as poweron. Becareful and don't erase those memories. No harm will be done, but you will have to enter them in again if you want to. If you do not want it to come up with the poweron setting, either delete it or just rename it if you want to save it for later use.

From: "N1BUG paul@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Monday, January 12, 2015 5:39 PM
Subject: Re: [hp8924] E8285A setup

Thanks guys!

Setting up the parameters and saving it as POWERON worked perfectly. I also discovered it saves just about the entire instrument setup, which is most helpful. I included a few other settings that I found myself changing on every startup.

73,
Paul N1BUG

--

# 2012. Re: [hp8924] E8285A setup

Yahoo group: hp8924
Date: 2015-01-13 10:05:34 UTC
From: Ralph Mowery
Topic: 2005  Message: 2012

Yes it does Robert.  We said just about the same thing also.

From: "Robert Atkinson robert8rpi@... [hp8924]" <hp8924@yahoogroups.com>
To: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
Sent: Tuesday, January 13, 2015 2:22 AM
Subject: Re: [hp8924] E8285A setup

# 2013. Re: [hp8924] HP 8935 external monitor

Yahoo group: hp8924
Date: 2015-01-20 23:57:26 UTC
From: Ralph Mowery
Topic: 1994  Message: 2013

Robert the chips and board came in today.
Took about an hour or two to get my stuff together and lay it out on the work bench.  I could not resist and just plugged it in the green phono connector.  As others noticed the left side of the screen was missing the first part.
I then built the sync board and could not get a display at all from the 8924c to the vga monitor.  After trouble shooting for about 10 minuits, I noticed the yellow wire from the horizontal sync on the connector was in the wrong place.  I moved it over one space to the correct position and after doing some adjusting on the monitor and board to get the screen center it works fine.
Now all I have to do is find a box to put it in.
Thanks for the help and info.

From: "Robert Atkinson robert8rpi@yahoo.co.uk [hp8924]" <hp8924@yahoogroups.com>
To: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
Sent: Thursday, January 8, 2015 1:39 PM
Subject: Re: [hp8924] HP 8935 external monitor

# 2014. Re: [hp8924] HP 8935 external monitor

Yahoo group: hp8924
Date: 2015-01-21 07:37:16 UTC
From: robert8rpi@...
Topic: 1994  Message: 2014

Hi Ralph,
No problem, glad to help.
As an aside, I recently built a down / up converter to extend the range of my 8924C to 2 GHz, Actually built two and have put one on ebay, see item 261739784902. At 18kg it's a bit heavy to post to the USA though.

Robert G8RPI.

# 2015. E8285A oscilloscope screen

Yahoo group: hp8924
Date: 2015-01-22 11:58:58 UTC
From: N1BUG
Topic: 2015  Message: 2015

Here's another question from the new guy: How does one get to the oscilloscope screen on the E8285A? I've read everything I can find, I've pushed buttons, etc. but I haven't figured this out. I'm trying to troubleshoot an audio distortion problem and need the scope function.

Thanks,
Paul N1BUG

# 2016. Re: [hp8924] E8285A oscilloscope screen

Yahoo group: hp8924
Date: 2015-01-22 12:21:14 UTC
From: Brian Swann
Topic: 2015  Message: 2016

Right side of the screen near the bottom, select "analog". A drop down will open, select "scope".

You may have to change the vertical input source from FM Demod,

Brian
n1bs

Sent from my iPhone

> On Jan 22, 2015, at 6:59 AM, N1BUG paul@n1bug.com [hp8924] <hp8924@yahoogroups.com> wrote:
>
> Here's another question from the new guy: How does one get to the
> oscilloscope screen on the E8285A? I've read everything I can find,
> I've pushed buttons, etc. but I haven't figured this out. I'm trying
> to troubleshoot an audio distortion problem and need the scope function.
>
> Thanks,
> Paul N1BUG
>

# 2017. Re: [hp8924] E8285A oscilloscope screen

Yahoo group: hp8924
Date: 2015-01-22 12:26:03 UTC
From: Robert Atkinson
Topic: 2015  Message: 2017
Attachments: 1 described; binary payloads are missing from this source WARC

From: "N1BUG paul@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Thursday, 22 January 2015, 11:58
Subject: [hp8924] E8285A oscilloscope screen

Here's another question from the new guy: How does one get to the oscilloscope screen on the E8285A? I've read everything I can find, I've pushed buttons, etc. but I haven't figured this out. I'm trying to troubleshoot an audio distortion problem and need the scope function.

Thanks,
Paul N1BUG
Posted by: N1BUG <paul@...>
| Reply via web post | • | Reply to sender | • | Reply to group | • | Start a New Topic | •
| Messages in this topic (1) |

Visit Your Group
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- New Links 1
• Privacy • Unsubscribe • Terms of Use
Hi Paul,I only have an 8924C, but here goes. 1/ Using the main knob, scroll around until the circle next to "Analog" on the Right side of the screen is filled in. 2/ Push the knob in. 3/ Scroll down the list to "Scope". 4/ Push the knob. That should get you to the 'scpe screen. HTH,Robert G8RPI.

.

# 2018. Re: [hp8924] E8285A oscilloscope screen [1 Attachment]

Yahoo group: hp8924
Date: 2015-01-22 12:57:57 UTC
From: N1BUG
Topic: 2015  Message: 2018

Thanks Brian and Robert.

That should have been obvious, but the obvious often escapes me. :-)

73,
Paul N1BUG

# 2019. Low power limit of 1 watt on 8935 for 30 too 100 MHz

Yahoo group: hp8924
Date: 2015-01-23 16:56:57 UTC
From: abrigno@...
Topic: 2019  Message: 2019

Just got an HP 8935 test set and I am getting familiar with it. Noticed that for Rf power measurments that in Data sheet August 14, 2001. That for RF power measurements it says the range for 30MHz to 100 MHz is 4mw to 1 w continuous. Is this correxct? Am I missing something here? 1 watt continuous seems low?

Excuse typing I have the famous Yahoo white box in the center of my screen and have to work around it.

# 2020. 8920B Firmware

Yahoo group: hp8924
Date: 2015-01-23 16:59:46 UTC
From: rtatis@...
Topic: 2020  Message: 2020

Hi,
Is there a compiled list anywhere that shows a change log of the firmware versions for the 8920B?
My service monitor has B.01.25 and I'd like to know what if any improvements there are with newer firmware and subsequently how to obtain a newer firmware already on a PCMCIA card.

Thank You

# 2021. Re: [hp8924] Low power limit of 1 watt on 8935 for 30 too 100 MHz

Yahoo group: hp8924
Date: 2015-01-23 17:36:41 UTC
From: Robert Atkinson
Topic: 2019  Message: 2021

Hi,Interesting, That's what it says, but according to the block diagrm the first item connected to the RF IN/OUT port is a 16dB 100W attenuator so It's not clear what the limitation is. Amtronics say it is good for 75W 100% duty cycle. I can't actually find a formal specification for the 8935, it's document no. 5966-0512E but it's not on the Keysight website.
This note on power measurement
http://literature.cdn.keysight.com/litweb/pdf/5967-5539E.pdf may be useful.
What does it say on the box (side or near RF IN/OUT)?
Robert G8RPI
From: "abrigno@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Friday, 23 January 2015, 16:56
Subject: [hp8924] Low power limit of 1 watt on 8935 for 30 too 100 MHz

Just got an HP 8935 test set and I am getting familiar with it. Noticed that for Rf power measurments that in Data sheet August 14, 2001. That for RF power measurements it says the range for 30MHz to 100 MHz is 4mw to 1 w continuous. Is this correxct?Am I missing something here? 1 watt continuous seems low?
Excuse typing I have the famous Yahoo whitebox in the center of my screen and have to work around it.

# 2022. Re: [hp8924] Low power limit of 1 watt on 8935 for 30 too 100 MHz

Yahoo group: hp8924
Date: 2015-01-23 18:00:52 UTC
From: clif@...
Topic: 2019  Message: 2022

Check Amtronix website HP / Agilent 8935 E6380A http://www.amtronix.com/e6380a.htm

They also have a comparison chart link at the bottom that is interesting.

http://www.amtronix.com/e6380a.htm

HP / Agilent 8935 E6380A http://www.amtronix.com/e6380a.htm Here are the main differences between the HP 8920B and the HP 8935 / E6380A units.

View on www.amtronix.com http://www.amtronix.com/e6380a.htm
Preview by Yahoo

# 2023. Re: [hp8924] Low power limit of 1 watt on 8935 for 30 too 100 MHz

Yahoo group: hp8924
Date: 2015-01-23 18:24:02 UTC
From: Rich Osman
Topic: 2019  Message: 2023

I believe that these are link their predecessors in that there are low power and high power versions. The low power versions were focused on handset production and repair. I do not remember which was default and which was the option.

On 1/23/2015 10:56 AM, abrigno@... [hp8924] wrote:
>
>
> Just got an HP 8935 test set and I am getting familiar with it.
> Noticed that for Rf power measurments that in Data sheet August 14,
> 2001. That for RF power
>
> measurements it says the range for 30MHz to
>
> 100 MHz is 4mw to 1 w continuous. Is this correxct?
>
> Am I missing something here? 1 watt continuous seems low?
>
>
> Excuse typing I have the famous Yahoo white
>
> box in the center of my screen and have to work around it.
>
>
>
> _,___

--
mailto:lists@... http://www.n1oz.net ARS: N1OZ
Rich Osman; POB 93167; Southlake, TX 76092 (Near DFW Airport)

# 2024. Re: [hp8924] Low power limit of 1 watt on 8935 for 30 too 100 MHz

Yahoo group: hp8924
Date: 2015-01-24 04:02:20 UTC
From: clif@...
Topic: 2019  Message: 2024

Here is a link to the data sheet.
http://literature.cdn.keysight.com/litweb/pdf/5968-3798E.pdf
http://literature.cdn.keysight.com/litweb/pdf/5968-3798E.pdf

RF measurements it show max continuous input power of 1mW to 100w <40 deg C. Derating to 75w cont <55 deg C.

Pop the hood and see if there is a big attenuator on the input port.

The low power max ratings are for CDMA and TDMA signals where there are multiple 15w channels and it's monitoring all of them. My take

# 2025. Re: [hp8924] Low power limit of 1 watt on 8935 for 30 too 100 MHz

Yahoo group: hp8924
Date: 2015-01-24 08:59:48 UTC
From: Robert Atkinson
Topic: 2019  Message: 2025

Hi Cliff,I agree on the multiple carrier case, but under RF power measurement the datasheet says
"30 MHz <fc<100 MHz: 4 mW to 1 W continuous"While above 100MHz it's 100W below 40degC.The only obvious explanation s a PIN diode switch rating. They don't work well at low frequencies. However the block diagram shows an attenuator first. The other issue is the datasheet is a sales tool, I was hoping to find the performance specification, 5966-0512E, which should be definative. The other clue is the warning label next to the RF connector.
Robert G8RPI.
From: "clif@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Saturday, 24 January 2015, 4:02
Subject: Re: [hp8924] Low power limit of 1 watt on 8935 for 30 too 100 MHz

Here is a link to the data sheet.
http://literature.cdn.keysight.com/litweb/pdf/5968-3798E.pdf

RF measurements it show max continuous input power of 1mW to 100w <40 deg C. Derating to 75w cont <55 deg C.

Pop the hood and see if there is a big attenuator on the input port.

The low power max ratings are for CDMA and TDMA signals where there are multiple 15w channels and it's monitoring all of them.  My take

# 2026. Re: [hp8924] Low power limit of 1 watt on 8935 for 30 too 100 MHz

Yahoo group: hp8924
Date: 2015-01-24 16:04:10 UTC
From: clif@...
Topic: 2019  Message: 2026

You're mixing 2 different parts of the spec sheet. The first is from the CDMA section. Here is the complete other;

RF Analyzer Measurements
SWR: RF IN/OUT Port:< 1.5: 1
ANT IN Port: <1.6:1, except <1.8:1 for 0 dBattenuation in 1.7 to 2.0 GHz band
RF Frequency Measurements
Measurement Range:
400 kHz to 1 GHz, 1.7 to 2.0 GHz
Level Range:
RF IN/OUT:
1 mW to 100 watts continuous, temp. <40° C,
75 W continuous, for temperatures <55° C
ANT IN:
−38 dBm to +15 dBm

# 2027. Re: [hp8924] Low power limit of 1 watt on 8935 for 30 too 100 MHz

Yahoo group: hp8924
Date: 2015-01-24 17:01:36 UTC
From: Robert Atkinson
Topic: 2019  Message: 2027

Hi Cliff,Sorry you are wrong, the section you quote is the accepable level range for frequency measurement. The powermeasurement section clearly has two ranges, above 100MHz (100W) and below 100MHz (1W)
RF Power Measurements
Frequency Range:
30 MHz to 1 GHz, 1.7 to 2.0 GHz
Measurement Range RF IN/OUT:
100 MHz <fc<2.0 GHz:
4 mW to 100 W continuous, temperatures <40° C,
75 W continuous, for temperatures <55° C
30 MHz <fc<100 MHz:
4 mW to 1 W continuous
Looking at the ALRG again it shows a switch contact before the power sensor. If this is a PIN switch it could account for the frequency range. It is also possible that the high power sensor has a small coupling capacitor (low inductance too, essential for UHF) at the input, rendering it poor below 100MHz. For low frequencies they may use the receiver/RF analyser for power measurement, with attendant low power range.

Robert G8RPI.

From: "clif@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Saturday, 24 January 2015, 16:04
Subject: Re: [hp8924] Low power limit of 1 watt on 8935 for 30 too 100 MHz

You're mixing 2 different parts of the spec sheet. The first is from the CDMA section. Here is the complete other;

RF Analyzer Measurements
SWR: RF IN/OUT Port:< 1.5: 1
ANT IN Port: <1.6:1, except <1.8:1 for 0 dBattenuation in 1.7 to 2.0 GHz band
RF Frequency Measurements
Measurement Range:
400 kHz to 1 GHz, 1.7 to 2.0 GHz
Level Range:
RF IN/OUT:
1 mW to 100 watts continuous, temp. <40° C,
75 W continuous, for temperatures <55° C
ANT IN:
−38 dBm to +15 dBm

# 2028. Re: [hp8924] Low power limit of 1 watt on 8935 for 30 too 100 MHz

Yahoo group: hp8924
Date: 2015-01-24 18:09:27 UTC
From: clif@...
Topic: 2019  Message: 2028

Here is the section you are quoting:

CDMA Analyzer Specifications
Average Power Measurement
Input Frequency Range:
30 MHz to 1000 MHz, and 1.7 to 2.0 GHz
Input Connector:
RF IN/OUT only
Measurement Bandwidth:
Provides an accurate measure of the
total power for signals within ±2 MHz of the operating frequency.
If other signals are present outside this frequency range, reduced
measurement accuracy will result.
Maximum Input Level:
15 W average for CDMA signals
Measurement Range:
4 mW to 15 W for f >100 MHz (+6 to +42 dBm)
4 mW to 1 W for f <100 MHz (+6 to +30 dBm)
Measurement Period:
0.25 ms to 26.66 ms

While I don't fully understand cellular operations it seems to me they are measuring the total power in a 4 MHz (+/-2MHz) window and the individual signal should be <15w avg or 1w avg. That's where it gets confusing.

Last I checked cellular CDMA doesn't operate below 100MHz.

The section I previously quoted from the same data sheet but 2 pages later clearly shows an operating range of 400kHz-1GHz, 1700-2000 MHz and a power measurement capability of 100w.

The confusion could be from the SM connected to the antenna port in a CDMA or TDMA system is seeing multiple signals and having to handle the total power whereas when operating as a SM for an individual radio it's only seeing a single signal and has more power handling capability.

# 2029. Re: [hp8924] Low power limit of 1 watt on 8935 for 30 too 100 MHz

Yahoo group: hp8924
Date: 2015-01-24 19:24:01 UTC
From: Robert Atkinson
Topic: 2019  Message: 2029

Hi Cliff,That is page 2 of 5968-3798E, which as you say is CDMA average power measurement.
I was quoting page 5 "RF Power Measurements".
Regards,Robert G8RPI.

From: "clif@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Saturday, 24 January 2015, 18:09
Subject: Re: [hp8924] Low power limit of 1 watt on 8935 for 30 too 100 MHz

Here is the section you are quoting:

CDMA Analyzer Specifications
Average Power Measurement
Input Frequency Range:
30 MHz to 1000 MHz, and 1.7 to 2.0 GHz
Input Connector:
RF IN/OUT only
Measurement Bandwidth:
Provides an accurate measure of the
total power for signals within ±2 MHz of the operating frequency.
If other signals are present outside this frequency range, reduced
measurement accuracy will result.
Maximum Input Level:
15 W average for CDMA signals
Measurement Range:
4 mW to 15 W for f >100 MHz (+6 to +42 dBm)
4 mW to 1 W for f <100 MHz (+6 to +30 dBm)
Measurement Period:
0.25 ms to 26.66 ms

While I don't fully understand cellular operations it seems to me they are measuring the total power in a 4 MHz (+/-2MHz) window and the individual signal should be <15w avg or 1w avg. That's where it gets confusing.

Last I checked cellular CDMA doesn't operate below 100MHz.

The section I previously quoted from the same data sheet but 2 pages later clearly shows an operating range of 400kHz-1GHz, 1700-2000 MHz and a power measurement capability of 100w.

The confusion could be from the SM connected to the antenna port in a CDMA or TDMA system is seeing multiple signals and having to handle the total power whereas when operating as a SM for an individual radio it's only seeing a single signal and has more power handling capability.

# 2030. Re: [hp8924] Low power limit of 1 watt on 8935 for 30 too 100 MHz

Yahoo group: hp8924
Date: 2015-01-24 20:14:07 UTC
From: clif@...
Topic: 2019  Message: 2030

That's correct and Page 5 is quoted in message 7. Read it.

# 2031. Re: [hp8924] Low power limit of 1 watt on 8935 for 30 too 100 MHz

Yahoo group: hp8924
Date: 2015-01-25 09:14:29 UTC
From: Robert Atkinson
Topic: 2019  Message: 2031

Hi Cliff,The quote in meassage 7 is from page 4 of 5968-3798E and is for "RF Frequency Measurements" not power measurements.
Copy from meassage 7"ANT IN Port: <1.6:1, except <1.8:1 for 0 dBattenuation in 1.7 to 2.0 GHz band
RF Frequency Measurements
Measurement Range:"
The RF Power measurement spec is on page 5.
This indicates that the <30MHz 1W power limit is not a damage limit and seems to confirm my thought that they use a different detector below 30MHz.Please remember that 5968-3798E is sales flyer, not a formal specification. Without that specification we are just guessing.
Regards, Robert G8RPI

From: "clif@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Saturday, 24 January 2015, 20:14
Subject: Re: [hp8924] Low power limit of 1 watt on 8935 for 30 too 100 MHz

That's correct and Page 5 is quoted in message 7. Read it.

# 2032. Re: [hp8924] Low power limit of 1 watt on 8935 for 30 too 100 MHz

Yahoo group: hp8924
Date: 2015-01-25 17:33:54 UTC
From: clif@...
Topic: 2019 Message: 2032

Then why does it list a max power of 100w? Or did you fail to notice that? When checking frequency that is the max power it can handle.

Usage as a CDMA/TDMA test set and usage as a service monitor are 2 different things that's why there two different sections and sets of spec's. Don't mix the 2.

Once again;

RF Frequency Measurements
Measurement Range:
400 kHz to 1 GHz, 1.7 to 2.0 GHz
Level Range:
RF IN/OUT:
1 mW to 100 watts continuous, temp. <40° C,
75 W continuous, for temperatures <55° C

FWIW I learned more about CDMA in the last several days than I ever wanted to know, hopefully I will be able to forget it as fast as it's not something I will ever need. Service monitor usage is a different thing and I'm still learning the thing that mine can do. Amazing boxes.

# 2033. Re: [hp8924] Low power limit of 1 watt on 8935 for 30 too 100 MHz

Yahoo group: hp8924
Date: 2015-01-25 18:29:59 UTC
From: W9TN
Topic: 2019  Message: 2033

Clif, Robert is not referring to the CDMA/TDMA section of the data sheet. You are both quoting from the general (non-CDMA/TDMA) section. You are quoting the frequency measurement specs on page 4, while Robert is quoting the power measurement specs on page 5. Please notice the power limits for frequency measurement and power measurement are different.

Robert, I think you meant 100MHz toward the end of your last description, as there is no power measurement spec below 30MHz. The 1W limit applies to power measurements between 30 and 100MHz.

As Robert says, 1W is not a damage limit. I think you can safely put a continuous 100W (< 40C) signal throughout the 8935 operating frequency range into the RF IN/OUT connector, you just won't get an accurate power measurement above 1W below 100MHz (frequency measurements will still be accurate however). That safe power limit is 75W for temperatures from 40C to 55C, which accounts for the 75W warning label above the RF IN/OUT connector. I hope that helps clear things up.
--
73, Steve W9TN

On 1/25/2015 12:33 PM, clif@... [hp8924] wrote:
>
>
> Then why does it list a max power of 100w? Or did you fail to notice
> that? When checking frequency that is the max power it can handle.
>
> Usage as a CDMA/TDMA test set and usage as a service monitor are 2
> different things that's why there two different sections and sets of
> spec's. Don't mix the 2.
>
> Once again;
>
> RF Frequency Measurements
> Measurement Range:
> 400 kHz to 1 GHz, 1.7 to 2.0 GHz
> Level Range:
> RF IN/OUT:
> 1 mW to 100 watts continuous, temp. <40° C,
> 75 W continuous, for temperatures <55° C
>
>
> FWIW I learned more about CDMA in the last several days than I ever
> wanted to know, hopefully I will be able to forget it as fast as it's
> not something I will ever need. Service monitor usage is a different
> thing and I'm still learning the thing that mine can do. Amazing boxes.
>

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>
> ----------------------------------------------------------------------
> Posted by: clif@...
> ----------------------------------------------------------------------
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# 2034. Re: [hp8924] Low power limit of 1 watt on 8935 for 30 too 100 MHz

Yahoo group: hp8924
Date: 2015-01-25 20:23:14 UTC
From: W Private
Topic: 2019  Message: 2034

Concerning 8935 power measurements.I tried this 2-3 days ago, before reading this thread.I recently connected my military radio, a GRC 106 to my new HP 8935 RF IN.I wanted to see if it would measure the watt output.I found out that if you use PEAK on transmit power measurement, the reading is way high, maybe 160W? Don't remember.When I switched to SAMPLE it came up with a reading very close to my wattmeter.I was reading a 55 W tuning carrier.Frequency is 14.2 MHzBy the way frequency reading was accurate also.Also, no smoke.Wally KC9INKPlease note: no electrons were harmed during this particular procedure

On Sunday, January 25, 2015 1:30 PM, "W9TN steve@vanfrank.com [hp8924]" <hp8924@yahoogroups.com> wrote:

  Clif, Robert is not referring to the CDMA/TDMA section of the data sheet. You are both quoting from the general (non-CDMA/TDMA) section. You are quoting the frequency measurement specs on page 4, while Robert is quoting the power measurement specs on page 5. Please notice the power limits for frequency measurement and power measurement are different.

Robert, I think you meant 100MHz toward the end of your last description, as there is no power measurement spec below 30MHz. The 1W limit applies to power measurements between 30 and 100MHz.

As Robert says, 1W is not a damage limit. I think you can safely put a continuous 100W (< 40C) signal throughout the 8935 operating frequency range into the RF IN/OUT connector, you just won't get an accurate power measurement above 1W below 100MHz (frequency measurements will still be accurate however). That safe power limit is 75W for temperatures from 40C to 55C, which accounts for the 75W warning label above the RF IN/OUT connector. I hope that helps clear things up.
--
73, Steve W9TN

On 1/25/2015 12:33 PM, clif@... [hp8924] wrote:
>
>
> Then why does it list a max power of 100w? Or did you fail to notice
> that? When checking frequency that is the max power it can handle.
>
> Usage as a CDMA/TDMA test set and usage as a service monitor are 2
> different things that's why there two different sections and sets of
> spec's. Don't mix the 2.
>
> Once again;
>
> RF Frequency Measurements
> Measurement Range:
> 400 kHz to 1 GHz, 1.7 to 2.0 GHz

> Level Range:
> RF IN/OUT:
> 1 mW to 100 watts continuous, temp. <40° C,
> 75 W continuous, for temperatures <55° C
>
>
> FWIW I learned more about CDMA in the last several days than I ever
> wanted to know, hopefully I will be able to forget it as fast as it's
> not something I will ever need. Service monitor usage is a different
> thing and I'm still learning the thing that mine can do. Amazing boxes.
>
>
> ---
> Posted by: clif@...
> ---

# 2035. Re: [hp8924] Low power limit of 1 watt on 8935 for 30 too 100 MHz

Yahoo group: hp8924
Date: 2015-01-25 20:28:10 UTC
From: robert8rpi@...
Topic: 2019  Message: 2035

Hi Steve,
Thanks for the correction, I should indeed have said 100MHz. Having done some more research I think the issue is as follows:
The main power meter circuit has to work up to 2GHz. As a design compromise (large capacitors for low frequency response have too much stray inductance for high frequencies) it does not work accurately below 100MHz. Below 100MHz the "receiver" module is used for level or power measurement. This has limited power capability hence the 1W limit. Note that this is only accurate down to 30MHz (due to the PIN diode switches in the input assembly having increased loss below 30MHz) while the frequency counter works down to 400kHz. The counter just needs enough signal to toggle the counter, it does not care about the flatness of the input circuit with frequency.

Regards,
Robert.

# 2036. RE: [hp8924] Low power limit of 1 watt on 8935 for 30 too 100 MHz

Yahoo group: hp8924
Date: 2015-01-25 21:43:17 UTC
From: Tony Brignole
Topic: 2019  Message: 2036

I was the guy who posed the original question about the 1 watt input limit between 30 and 100 MHz.

I was at the Jackson MS hamfest this weekend and just got caught up.

Thanks to all for taking the time to answer and clarify the question. Lots of very good discussion. Using the SAMPLE mode technique mentioned is interesting. I have service manual but did not have time to study it prior to hamfest. Will dig into it little more this week.

At worse case I have a 100 watt 20 dB attenuator I could put in the line for measurements below 100 MHz. This would be very infrequent and not a super big deal.

I have an 8924C that works great but clearly it is a bench piece. I wanted the 8935 because it is newer and much more portable and I can take it to our repeater locations. 99% of my work is 2 meter and up. Very small amount is 6 meter work.

Far bigger issue is while I was bidding to get one, I was so successful I got 2 – nearly 4. I told her cost and Wife wanted to know what I was going to do with two expensive pieces of equipment, and the only quick answer I could come up with was “stereo”. I guess after 45 years she is used to it.

Thanks again to all who took the time to contribute.

Next big issue is what in the hell is white box that shows up in the middle of my Yahoo Groups page. It appears a lot of folks are having this problem. Need to start working on it tomorrow.

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com]
Sent: Sunday, January 25, 2015 2:28 PM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Low power limit of 1 watt on 8935 for 30 too 100 MHz

Hi Steve,
Thanks for the correction, I should indeed have said 100MHz. Having done some more research I think the issue is as follows:
The main power meter circuit has to work up to 2GHz. As a design compromise (large capacitors for low frequency response have too much stray inductance for high frequencies) it does not work accurately below 100MHz. Below 100MHz the "receiver" module is used for level or power measurement. This has limited power capability hence the 1W limit. Note that this is only accurate down to 30MHz (due to the PIN diode switches in the input assembly having increased loss below 30MHz) while the frequency counter works down to 400kHz. The counter just needs enough signal to toggle the counter, it does not care about the flatness of the input circuit with frequency.

Regards,
Robert.

# 2037. RE: [hp8924] Low power limit of 1 watt on 8935 for 30 too 100 MHz

Yahoo group: hp8924
Date: 2015-01-26 14:27:15 UTC
From: george@...
Topic: 2019  Message: 2037

Aha! You were one of the guys I was bidding against... :-)

About the unit on lower freq, it is not going to be damaged if you put your 100W HF rig into it, the power measurement is just not accurate at all. Reads WAY high. For HF I use an IFR on my bench. Most of what I use the 8935 for is 440 and up, there its right on the money. I'll try the sample trick. But no matter what freq you are at there is still a big high power attenuator in line provided you use the RF in/out port.

GeorgeC
W2DB

# 2038. RE: [hp8924] Low power limit of 1 watt on 8935 for 30 too 100 MHz

Yahoo group: hp8924
Date: 2015-01-26 16:44:53 UTC
From: clif@...
Topic: 2019  Message: 2038

Thank you for the clarification. The big long discussion between myself and another was about power handling capability, nothing else. You have clarified it.

# 2039. RE: [hp8924] Low power limit of 1 watt on 8935 for 30 too 100 MHz

Yahoo group: hp8924
Date: 2015-01-27 12:54:29 UTC
From: Tony Brignole
Topic: 2019 Message: 2039

George, It looked Like I was bidding against more than you. It was really jumping around at the end. At one point I had 4. Glad you or someone outbid me on two. Just got shipping info that they should be here tomorrow afternoon. Not sure what I am going to do with second one. There will probably be someone here in Memphis area who wants it.

I have had an 8924C for several years and love it. Mine is a 100 watt model and there is not much it won't do but it sure isn't portable. I was after the 8935 for the portability.

Most of what I do is VHF and up. We have 6,2,220,440, and 900 repeaters here. 6 is only one that could be problematic. Fortunately it is very little trouble. It is an old GE Mstr II. Duplexer is 4 cans 1 ft diameter 80 inches to top of can. Tuning stubs 1 ft. higher. I have to get on a step ladder to tune the duplexer. I put a commercial video adapter on the 8924 and a 19 inch VGA monitor. I can watch the monitor from the step ladder when tuning.

I want to play around when I get it. The sampling technique sounds interesting. As soon as I get a chance to get familiar with the unit and look over the manuals I may try it. It would be nice if it worked.

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com]
Sent: Monday, January 26, 2015 8:27 AM
To: hp8924@yahoogroups.com
Subject: RE: [hp8924] Low power limit of 1 watt on 8935 for 30 too 100 MHz

Aha! You were one of the guys I was bidding against... :-)

About the unit on lower freq, it is not going to be damaged if you put your 100W HF rig into it, the power measurement is just not accurate at all. Reads WAY high. For HF I use an IFR on my bench. Most of what I use the 8935 for is 440 and up, there its right on the money. I'll try the sample trick. But no matter what freq you are at there is still a big high power attenuator in line provided you use the RF in/out port.

GeorgeC
W2DB

# 2040. RE: [hp8924] Low power limit of 1 watt on 8935 for 30 too 100 MHz

Yahoo group: hp8924
Date: 2015-01-28 04:25:25 UTC
From: clif@...
Topic: 2019  Message: 2040

Might I inquire what the auction site was for the 8935's. It sounds interesting.

# 2041. RE: [hp8924] Low power limit of 1 watt on 8935 for 30 too 100 MHz

Yahoo group: hp8924
Date: 2015-01-28 13:33:02 UTC
From: Tony Brignole
Topic: 2019 Message: 2041

Clif it was govliquidation.com. It is the Ebay for the Federal Gov. I have shopped from them for years. Lately they have gotten high.

They sell everything from tanks to planes. When they do electronics it is all over the U.S. so you have to watch shipping.

I paid around $850 each for the two 8935s. There was a 16% buyers premium [up from 10%] and they charged sales tax, so cost delivered to Memphis ex Columbus OHIO was in the $1150 range.

If you live close to a DRMO you can drive and pick it up if it is in your area.

Also watch out for some onerous restrictions. Several years ago they went back and tried to get you to trace custody of everything you had ever bought. Many of these items were not special and were standard commodity items. I had most in my shop but some I had sold at hamfests. Since it wasn’t a front end requirement my lawyers suggested that they bite something. Now, on some items they make you agree to custody chain on front end. Read carefully and beware and damn sure don’t show up to pick it up in a thawb and keffiyeh.

They also follow the 15 minute rule.

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com]
Sent: Tuesday, January 27, 2015 10:25 PM
To: hp8924@yahoogroups.com
Subject: RE: [hp8924] Low power limit of 1 watt on 8935 for 30 too 100 MHz

Might I inquire what the auction site was for the 8935's. It sounds interesting.

# 2042. RE: [hp8924] Low power limit of 1 watt on 8935 for 30 too 100 MHz

Yahoo group: hp8924
Date: 2015-01-28 14:25:19 UTC
From: george@...
Topic: 2019  Message: 2042

I know, these are good units. I have two here now. But the prices went too high. Considering that they may be defective (I got a defective IFR a few years back this way) I figure I'd de-rate my bid to 50% of ebay market, which seems to be around $900 for anyone who truly intends to sell one there. FWIW, there are four more being auctioned starting 1/30 from the same location. Another HF 8921 as well. Same time they'll be auctioning five HP8285A's, which might be good and do sell for half of the 6380/8935 price. But the hitch is that according to Amtronix, ones badged as Agilent at some point lost the ability to work below 800 mhz, and can't be modified.

For the person who asked, these are being auctioned off by the US gov. I use Govliquidation.com which is easy to use. Before getting one of these you probably need to fill in some boilerplate forms called end user certificates, etc.

Enjoy, these are all nice units. I use mine frequently though my go-to bench unit is an old IFR-1000S, instant on, nothing to boot up.

GeorgeC
W2DB

# 2043. RE: [hp8924] Low power limit of 1 watt on 8935 for 30 too 100 MHz

Yahoo group: hp8924
Date: 2015-01-28 14:36:08 UTC
From: clif@...
Topic: 2019  Message: 2043

Thanks, I found that site after posting and while interesting it would require more time than
I have to try and find the items I would be interested in. Also most were too far to consider.
I like to see what I'm bidding on.

It's amazing how much stuff the gov auctions off.

# 2044. RE: [hp8924] Low power limit of 1 watt on 8935 for 30 too 100 MHz

Yahoo group: hp8924
Date: 2015-01-28 16:02:38 UTC
From: Tony Brignole
Topic: 2019  Message: 2044

DRMO at Huntsville Redstone Arsenal has at least a dozen warehouses 200 ft long with 20 ft ceilings and floor to ceiling shelves with electronic equipment. Sometimes it sits for years before it clears for auction. Our tax dollars at work!!!!

I have had pretty good luck by going with classification system. They generally tend to classify down, not up.

Use search to look for stuff ie like test set or spectrum analyzer and it will list them. You can also search by area and DRMO if you have one close to your house.

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com]
Sent: Wednesday, January 28, 2015 8:36 AM
To: hp8924@yahoogroups.com
Subject: RE: [hp8924] Low power limit of 1 watt on 8935 for 30 too 100 MHz

Thanks, I found that site after posting and while interesting it would require more time than
I have to try and find the items I would be interested in. Also most were too far to consider.
I like to see what I'm bidding on.

It's amazing how much stuff the gov auctions off.

# 2045. RE: [hp8924] Low power limit of 1 watt on 8935 for 30 too 100 MHz

Yahoo group: hp8924
Date: 2015-01-28 16:06:54 UTC
From: Tony Brignole
Topic: 2019 Message: 2045

Been shopping on this site for nearly 15 years. Bought some good stuff. Agree with de-rating bid. Probably paid too much for these but they are classified the as B. I have never seen an IFR rated that high.

Anyway its fun and I can fix most stuff if I do get a lemon.

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com]
Sent: Wednesday, January 28, 2015 8:25 AM
To: hp8924@yahoogroups.com
Subject: RE: [hp8924] Low power limit of 1 watt on 8935 for 30 too 100 MHz

I know, these are good units. I have two here now. But the prices went too high. Considering that they may be defective (I got a defective IFR a few years back this way) I figure I'd de-rate my bid to 50% of ebay market, which seems to be around $900 for anyone who truly intends to sell one there. FWIW, there are four more being auctioned starting 1/30 from the same location. Another HF 8921 as well. Same time they'll be auctioning five HP8285A's, which might be good and do sell for half of the 6380/8935 price. But the hitch is that according to Amtronix, ones badged as Agilent at some point lost the ability to work below 800 mhz, and can't be modified.

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Enjoy, these are all nice units. I use mine frequently though my go-to bench unit is an old IFR-1000S, instant on, nothing to boot up.

GeorgeC
W2DB

# 2046. Re: Low power limit of 1 watt on 8935 for 30 too 100 MHz

Yahoo group: hp8924
Date: 2015-01-29 00:21:53 UTC
From: jyelmgren@...
Topic: 2019  Message: 2046

Not sure who is buying from these auctions on govdeals.

prices seem to go way high and there is a 10% premium paid by the buyer on top of that. Not very many details on the condition either so other than power on tests.

Not sure all of the stuff listed is gov ...some of the stuff was tagged with asset tags from Motorola in one of the last auctions.

The shipping and local sales tax forms is another hassle if you are not local as well.

# 2047. Re: [hp8924] Re: Low power limit of 1 watt on 8935 for 30 too 100 MHz

Yahoo group: hp8924
Date: 2015-01-29 07:18:34 UTC
From: Robert Atkinson
Topic: 2019  Message: 2047

Hi,A lot of disposal sale prices have gone way up since they started internet bidding. It's too easy for people who don't know the value, inclding the very real risk that it's faulty, of items to pust the price up to retail or beyond. Gov Liqudation had a contract in the UK for ex military disposals for a while. They were useless, not providing a good service to the government or the buyer. Robert G8RPI.
From: "jyelmgren@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Thursday, 29 January 2015, 0:21
Subject: [hp8924] Re: Low power limit of 1 watt on 8935 for 30 too 100 MHz

Not sure who is buying from these auctions on govdeals.
prices seem to  go way high and there is a 10% premium paid by the buyer on top of that.
Not very many details on the condition either so other than power on tests.
Not sure all of the stuff listed is gov ...some of the stuff was tagged with asset tags from Motorola in one of the last auctions.
The shipping and local sales tax forms  is another hassle if you are not local as well.

# 2048. govdeals auctions

Yahoo group: hp8924
Date: 2015-01-29 13:36:24 UTC
From: jyelmgren@...
Topic: 2048  Message: 2048

didn't want to hijack the previous thread on the 8935.

Govdeals also locks the funds up front on any bids so unlike Ebay bidders have already paid for their maximum bid and there is no possibility of non-payment

Auction fess and taxes are still due if your bid wins on top of what you may have already paid.

Given all that amazed the prices for essentially parts or not working units

# 2049. Re: govdeals auctions

Yahoo group: hp8924
Date: 2015-01-29 14:25:07 UTC
From: george@...
Topic: 2048  Message: 2049

Well, the IFR I bought came thru with a bad power supply. I had an 1100 with a bad scope. Then two weeks after I got the one from the G I received a letter about letting them know where it was and that it had to be returned as it contains military secrets (my interpretation of the legal gobbledygook). I was able to drive it to DRMO in San Antonio. Even paid me mileage to drive it there, paid me 100% of what I paid for the unit, including shipping from Honolulu, where it was located. The DRMO guy (a ham) didn't want to believe they were recalling IFR-1100's, but showed him the letter... It had a nice canvas case, should have kept that. This last week I saw a bunch of what looked like workable Hummers in Hawaii, but the conditions were to scrap them, which has to be witnessed by someone to verify they were actually scrapped, not salvaged. What a waste, but they're used to that.

GeorgeC
W2DB

# 2050. RE: [hp8924] Re: Low power limit of 1 watt on 8935 for 30 too 100 MHz

Yahoo group: hp8924
Date: 2015-01-29 15:46:18 UTC
From: Tony Brignole
Topic: 2019 Message: 2050

Prices have defiantly gone up since I started over 10 years ago.

It is like any auction – you have to set your limit and be prepared to get hit once and awhile. Presently I am way, way to the good but much more careful.

Generally if is classified as category A or B there is a pretty good chance it will be OK.

Both of my 8935s arrived and appear to be working fine and in great cosmetic condition. I am still feeling my way around the menus system. The units appeared to be last calibrated in 2011.

The Hartigg cases they came in are unbelievably stout. They are waist high and may be bullet proof. Cases have wheels and pull out handle along with tons of padding and cushioning inside.

Software version is A.04

Found 2 CDs inside. Both are from HP. Contents for later date one are below. Not sure I can email these PDF files as they are massive. There is an on screen operating and user guide that appears interesting. I have not had time to go into it in detail yet but could be useful. There were actually 2 CDs but info below is from later one. There also appears to be guides for units specific to Nortel and Motorola.

If you need a copy let me know and we'll figure out how to get it to you or upload it somehow.

Manuals on HP Disc E6380-900027 February 2001 rev H

Part Number

Description

Version

Date

5966-4168E

Color Product Brochure

1997

5968-3978E

Data sheet for E6380A

1-2001

5968-3799E

8935A configuration options - lists options

2000

App Menu

Applications Menu for interactive program

E6380-900015

Assy Level Repair

B.03.10 up

1-2001

E6380-900016

Application Guide

B.03.10 up

1-2001

E6380-900017

Application Guide

B.03.10 up

1-2001

E6380-900018

Programmers guide

B.03.10 up

1-2001

E6380-90019

Reference Guide

B.03.10 up

1-2001

E6380-90073

GPIB Syntax Reference

B.03.10 up

1-2001

E6385-90001

Users Guide

A.03.00 up

5-2000

E6385-90002

AMPS Basic software Tests

A.03.00 up

5-2000

E6386-90001

User Guide

B.00.00

6-1999

E6387-90001

Users Guide

A.04.00

7-2001

E6388-90001

6388A users Logic guide

A.00.02

7-1998

E6389-90001

E6389 looks like specific to Nortel

A.03.00

3-2000

E8303-90001

Looks specific to Motorola

A.01.01

8-2000

Main Menu

Part of interactive program on DC

REF Menu

Part of interactive program on DC

Rem Menu

Part of interactive program on DC

Soft Menu

Part of interactive program on DC

Taran Menu

Part of interactive program on DC

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com]
Sent: Thursday, January 29, 2015 1:19 AM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Re: Low power limit of 1 watt on 8935 for 30 too 100 MHz

Hi,

A lot of disposal sale prices have gone way up since they started internet bidding. It's too easy for people who don't know the value, inclding the very real risk that it's faulty, of items to pust the price up to retail or beyond. Gov Liqudation had a contract in the UK for ex military disposals for a while. They were useless, not providing a good service to the government or the buyer.

Robert G8RPI.

---

From: "jyelmgren@... [hp8924] <mailto:jyelmgren@....com%20[hp8924]> "
<hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Thursday, 29 January 2015, 0:21
Subject: [hp8924] Re: Low power limit of 1 watt on 8935 for 30 too 100 MHz

Not sure who is buying from these auctions on govdeals.

prices seem to go way high and there is a 10% premium paid by the buyer on top of that. Not very many details on the condition either so other than power on tests.

Not sure all of the stuff listed is gov ...some of the stuff was tagged with asset tags from Motorola in one of the last auctions.

The shipping and local sales tax forms is another hassle if you are not local as well.

# 2051. Re: govdeals auctions

Yahoo group: hp8924
Date: 2015-01-29 17:03:22 UTC
From: clif@...
Topic: 2048  Message: 2051

Let me get this straight, when I place a bid they hit my credit card right then. Is that correct? If so I won't even bother to register, I'll let someone else do all the legwork and pay a bit more later.

# 2052. RE: [hp8924] Re: govdeals auctions

Yahoo group: hp8924
Date: 2015-01-29 19:06:10 UTC
From: Tony Brignole
Topic: 2048  Message: 2052

No, that is not how it works. You register with your card and if you win the bid they send you a statement and charge your card.

All of this is spelled out in the bid rules and procedures. They are definitely in the house’s favor and the buyers premium is now 16% vs the 10% it was for many years.

Just watch and use some common sense.

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com]
Sent: Thursday, January 29, 2015 11:03 AM
To: hp8924@yahoogroups.com
Subject: [hp8924] Re: govdeals auctions

Let me get this straight, when I place a bid they hit my credit card right then. Is that correct? If so I won't even bother to register, I'll let someone else do all the legwork and pay a bit more later.

# 2053. RE: [hp8924] Re: govdeals auctions

Yahoo group: hp8924
Date: 2015-01-30 00:17:41 UTC
From: jyelmgren@...
Topic: 2048  Message: 2053

The main point of that comment is that they secure the bid payment up front so there is no chance of skipping out of the deal if you win the auction.

I am sure most of us have been stuck by a non-paying bidder on Ebay were there appears to be little consequence for this behavior.

# 2054. RE: [hp8924] Re: govdeals auctions

Yahoo group: hp8924
Date: 2015-01-30 03:07:59 UTC
From: clif@...
Topic: 2048  Message: 2054

I may just have to register and stick a bid or 2 out there. There are several things coming up that look interesting. Then I would have to figure out the pickup/shipping angle. It looks fairly simple.

# 2055. RE: [hp8924] Re: govdeals auctions

Yahoo group: hp8924
Date: 2015-01-30 13:11:22 UTC
From: Tony Brignole
Topic: 2048 Message: 2055

Clif, I have had pretty good luck with the UPS store. Some charge a modest pickup fee and some don't. You just have to check. They will then pack it and ship it to you and it is pretty reasonable. Just be sure and consider the fee in your bids.

The two 8935 units were 75# [very heavy] each so the total was about 150# from Columbus Ohio to Memphis. The total was $240 including a $40 pickup fee and $1000 insurance on each one. I just had 40# shipped from New Orleans to Memphis for $38 including pickup fee. Just be sure and to check and include it in your bid fee. I used to drove to the DRMO at Huntsville [Redstone Arsenal] and pick my stuff up and it saved a bunch.

2 years ago at Huntsville I bought 3 100 ft. new rolls of 7/8 Heliax and 4 100 ft. Rolls of silver RG-58 and 4 500 ft rolls of RG-8X for $110. All of this was on a pallet sold as wire.

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com]
Sent: Thursday, January 29, 2015 9:08 PM
To: hp8924@yahoogroups.com
Subject: RE: [hp8924] Re: govdeals auctions

I may just have to register and stick a bid or 2 out there. There are several things coming up that look interesting. Then I would have to figure out the pickup/shipping angle. It looks fairly simple.

# 2056. RE: [hp8924] Re: govdeals auctions

Yahoo group: hp8924
Date: 2015-01-30 14:16:39 UTC
From: clif@...
Topic: 2048  Message: 2056

Understood about the "hidden costs". But I have 3 advantages;
1. I'm not buying to try and resell at a profit
2. I would be the end user and could pay more if it was something I needed
3. I wouldn't bid more than if I won the auction it would be like stealing

I thought you got the 8935's because they were lighter than your current service monitor? I show the E6380 at 49 lbs vs the 8920A/B at 38 lbs. The 8924 weighs in as an anchor at 59 lbs.

If those weights are correct then you got 25 lbs of packing which is good.

# 2057. RE: [hp8924] Re: govdeals auctions

Yahoo group: hp8924
Date: 2015-01-30 14:39:48 UTC
From: Tony Brignole
Topic: 2048  Message: 2057

I have had for 3-4 years an 8924C and it is a hoss!!! It is listed in the HP catalogue as “portable test equipment”. I would hate to see what they call bench equipment. It would take a crane to unload it.

I love the 8924C and use it frequently. The 8935 is still heavy but at least you can wrestle it around.

The carrying cases are also stout. I have not seen cases as stout as these. The Govt. Routinely shipped them around in these. I can stand on the cases. They have at least 6 inches of foam inside to cradle the instrument. They are waist high, have wheels and pull out handle like a suitcase for hauling.

90% of what I buy is for my use. I only sell if get too many or something new. I did sell some of the wire at hamfests. Nobody needs 3000 ft of silver RG-58 no matter how good it is. We used the Heliax and I still have one new roll of 7/8” in the attic.

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com]
Sent: Friday, January 30, 2015 8:17 AM
To: hp8924@yahoogroups.com
Subject: RE: [hp8924] Re: govdeals auctions

Understood about the "hidden costs". But I have 3 advantages;
1. I'm not buying to try and resell at a profit
2. I would be the end user and could pay more if it was something I needed
3. I wouldn't bid more than if I won the auction it would be like stealing

I thought you got the 8935's because they were lighter than your current service monitor? I show the E6380 at 49 lbs vs the 8920A/B at 38 lbs. The 8924 weighs in as an anchor at 59 lbs.

If those weights are correct then you got 25 lbs of packing which is good.

# 2058. HP 8921A Battery

Yahoo group: hp8924
Date: 2015-01-31 21:15:42 UTC
From: clif@...
Topic: 2058  Message: 2058

I opened up my 8921A today to check the battery. It still shows 2.9v and no signs of leakage.

For the groups information it uses a Panasonic BR-2/3A Lithium battery. It is available from Digikey under PN
P-270ND for $5.70

Cheap insurance to me.

Unless someone knows what battery is in the 8664A Sig Gen I will open it next

# 2059. Re: [hp8924] HP 8921A Battery

Yahoo group: hp8924
Date: 2015-02-01 09:33:00 UTC
From: Robert Atkinson
Topic: 2058  Message: 2059

Thanks for the info clif.The 2/3A 3V battery also used in the 8920, 8922 and 8924 test sets. some use two depending on the version of memory board. One important note is that these 3V Carbon monofluoride cells are getting hard to find in europe. A 3.6V Thionyl chloride cell will work. The extra voltage is not an issue, it's holding up a nominal 5V cmos RAM chip. However the PCB mount 3.6V cells have OPPOSITE POLARITY to the 3 V ones. The twin pin end is positive on the 4V cell and neagative on the 3.6V. Buy the solder tag verson (not PCB) and use tinned copper wire to mount it.

Robert G8RPI.

From: "clif@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Saturday, 31 January 2015, 21:15
Subject: [hp8924] HP 8921A Battery

I opened up my 8921A today to check the battery. It still shows 2.9v and no signs of leakage.

For the groups information it uses a Panasonic BR-2/3A Lithium battery. It is available from Digikey under PN
P-270ND for $5.70

Cheap insurance to me.

Unless someone knows what battery is in the 8664A Sig Gen I will open it next

# 2060. Re: [hp8924] HP 8921A Battery

Yahoo group: hp8924
Date: 2015-02-02 21:48:26 UTC
From: clif@...
Topic: 2058  Message: 2060

Thinking out loud here. On my 8920A I know the battery maintains the custom settings I have stored.

Does it also maintain the calibration settings? If so when I replace the battery I'm going to put another battery across it to hold the settings while I change the old one.

# 2061. Re: [hp8924] HP 8921A Battery

Yahoo group: hp8924
Date: 2015-02-03 00:10:52 UTC
From: Donald Forshee
Topic: 2058  Message: 2061

The calibration is stored in a socketed EEPROM (U13) on the controller (A7) board.
I've made backup copies of this EEPROM that's in all of the 8920A's I maintain.
ONE has failed through the years, but in a relatively benign fashion...

---
On Mon, 2/2/15, clif@... [hp8924] <hp8924@yahoogroups.com> wrote:

Thinking out loud here. On my 8920A I know the
battery maintains the custom settings I have stored.

Does it also maintain the
calibration settings? If so when I replace the battery
I'm going to put another battery across it to hold the
settings while I change the old one.

# 2062. Re: [hp8924] HP 8921A Battery

Yahoo group: hp8924
Date: 2015-02-03 00:25:24 UTC
From: Eric Vincent
Topic: 2058  Message: 2062

Hello guy's,

I'm new owner of a 8921A...
As you said, it's good to make a copy of U13? Is it a DIP socket chip and what is the model number ? I hope my old eprom programer will accept it.

I'm in the process to overall the unit and check the calibration. I'm pretty sure the battery need to be replaced too.

73' Eric

> Le 2015-02-02 à 19:10, Donald Forshee dlf63010@yahoo.com [hp8924] <hp8924@yahoogroups.com> a écrit :
>
> The calibration is stored in a socketed EEPROM (U13) on the controller (A7) board.
> I've made backup copies of this EEPROM that's in all of the 8920A's I maintain.
> ONE has failed through the years, but in a relatively benign fashion...
>
> ---
> On Mon, 2/2/15, clif@avvid.com [hp8924] <hp8924@yahoogroups.com> wrote:
>
> Thinking out loud here. On my 8920A I know the
> battery maintains the custom settings I have stored.
>
> Does it also maintain the
> calibration settings? If so when I replace the battery
> I'm going to put another battery across it to hold the
> settings while I change the old one.
>
>
>

# 2063. Re: [hp8924] HP 8921A Battery

Yahoo group: hp8924
Date: 2015-02-03 00:40:50 UTC
From: clif@...
Topic: 2058  Message: 2063

Thanks,

# 2064. Re: [hp8924] HP 8921A Battery

Yahoo group: hp8924
Date: 2015-02-03 14:40:46 UTC
From: Donald Forshee
Topic: 2058  Message: 2064

The socketed calibration chip (U13) in all of my sets is a Xicor X28C256P-20 EEPROM.

My old, nearly antique DOS (E)EPROM programmer copies them without incident.

My NEW (E)EPROM programmer automatically sets write-protect on the chips which prevents the 8920 from updating during calibration. Unchecking a box in my programmer software fixes that issue...

---
On Mon, 2/2/15, Eric Vincent ericvin@videotron.ca [hp8924] <hp8924@yahoogroups.com> wrote:

Subject: Re: [hp8924] HP 8921A Battery
To: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
Date: Monday, February 2, 2015, 6:25 PM

Hello guy's,
I'm new owner of a
8921A...As you said, it's good to make a copy
of U13? Is it a DIP socket chip and what is the model number
? I hope my old eprom programer will accept
it.
I'm in the
process to overall the unit and check the calibration.
I'm pretty sure the battery need to be replaced too.

73' Eric
Le 2015-02-02 à 19:10, Donald Forshee dlf63010@...
[hp8924] <hp8924@yahoogroups.com>
a écrit :

The calibration is stored in a socketed EEPROM
(U13) on the controller (A7) board.

I've made backup copies of this EEPROM that's in all
of the 8920A's I maintain.

ONE has failed through the years, but in a relatively benign
fashion...

---

On Mon, 2/2/15, clif@...
[hp8924] <hp8924@yahoogroups.com>
wrote:

Thinking out loud here. On my 8920A I know the

battery maintains the custom settings I have stored.

Does it also maintain the

calibration settings? If so when I replace the battery

I'm going to put another battery across it to hold
the

settings while I change the old one.

# 2065. Re: [hp8924] HP 8921A Battery

Yahoo group: hp8924
Date: 2015-02-05 22:09:10 UTC
From: Doug
Topic: 2058  Message: 2065

At 03:33 AM 01/02/2015, you wrote:

>Thanks for the info clif.
>The 2/3A 3V battery also used in the 8920, 8922 and 8924 test sets.
>some use two depending on the version of memory board.
>One important note is that these 3V Carbon monofluoride cells are
>getting hard to find in europe. A 3.6V
>Thionyl chloride cell will work. The extra voltage is not an issue,
>it's holding up a nominal 5V cmos RAM chip. However the PCB mount
>3.6V cells have OPPOSITE POLARITY to the 3 V ones. The twin pin end
>is positive on the 4V cell and neagative on the 3.6V. Buy the solder
>tag verson (not PCB) and use tinned copper wire to mount it.
>
>Robert G8RPI.
---
Robert where is this battery located in hp8924C?? Can it be tested
without tearing the machine apart?? If it has
to come out, is there a special procedure?? I have really enjoyed
seeing the results of a good piece of test
equipment. I was able to turn a pile of junk into a working
repeater which I use for test purposes.

Thanks for all the help on here...

Doug VE5DA

# 2066. Re: [hp8924] HP 8921A Battery

Yahoo group: hp8924
Date: 2015-02-05 22:46:05 UTC
From: Robert Atkinson
Topic: 2058  Message: 2066

Hi Doug,There are normally two cells. They are mounted on the memory board that is directly behind the PCMCIA slot on the front panel (the PCMCIA connector is on the end of the board. You need the top cover off, an internal cover above the board off and one of the adjacent boards has to come out first to give enough room to manover the memory card out. It's getting late here I'll try to give more detail tomorrow.

Robert G8RPI.
From: "Doug appld@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Thursday, 5 February 2015, 22:09
Subject: Re: [hp8924] HP 8921A Battery

At 03:33 AM 01/02/2015, you wrote:

>Thanks for the info clif.
>The 2/3A 3V battery also used in the 8920, 8922 and 8924 test sets.
>some use two depending on the version of memory board.
>One important note is that these 3V Carbon monofluoride cells are
>getting hard to find in europe. A 3.6V
>Thionyl chloride cell will work. The extra voltage is not an issue,
>it's holding up a nominal 5V cmos RAM chip. However the PCB mount
>3.6V cells have OPPOSITE POLARITY to the 3 V ones. The twin pin end
>is positive on the 4V cell and neagative on the 3.6V. Buy the solder
>tag verson (not PCB) and use tinned copper wire to mount it.
>
>Robert G8RPI.
---
Robert where is this battery located in hp8924C?? Can it be tested
without tearing the machine apart?? If it has
to come out, is there a special procedure?? I have really enjoyed
seeing the results of a good piece of test
equipment. I was able to turn a pile of junk into a working
repeater which I use for test purposes.

Thanks for all the help on here...

Doug VE5DA

# 2067. Re: [hp8924] HP 8921A Battery

Yahoo group: hp8924
Date: 2015-02-06 01:09:52 UTC
From: Doug
Topic: 2058  Message: 2067

At 04:46 PM 05/02/2015, you wrote:

>Hi Doug,
>There are normally two cells. They are mounted on the memory board
>that is directly behind the PCMCIA slot on the front panel (the
>PCMCIA connector is on the end of the board. You need the top cover
>off, an internal cover above the board off and one of the adjacent
>boards has to come out first to give enough room to manover the
>memory card out. It's getting late here I'll try to give more detail tomorrow.
>
>Robert G8RPI.
---
Thanks Robert. It sort of looks like a electric screwdriver job.... I
will open it up and have a look just to see that they
are not defective in any way and the type of battery I will have to look for..

73
Doug

# 2068. Re: [hp8924] HP 8921A Battery

Yahoo group: hp8924
Date: 2015-02-06 01:38:51 UTC
From: clif@...
Topic: 2058  Message: 2068

I received the batteries from Digikey today. PN P270-ND. They are the identical twin to the one in the 8921. Panasonic brand FWIW

# 2069. Re: [hp8924] HP 8921A Battery Update

Yahoo group: hp8924
Date: 2015-02-08 16:26:18 UTC
From: clif@...
Topic: 2058  Message: 2069

I installed the new battery yesterday. I also copied U13 and saved it for reference. I didn't get in a hurry installing the new battery but didn't take a coffee break either. When it was all put back together I had lost none of the saved test routines. Evidently there is a cap on the line that held the voltage for the few minutes it took. Started it up and all is well. Now I have 2 more to do.

# 2070. HP8920A - is it possible to determine year of manufacture by serial number?

Yahoo group: hp8924
Date: 2015-02-23 04:06:20 UTC
From: Yuri Ostry
Topic: 2070  Message: 2070

Hello,

Here is one question to gurus...

Is it possible to determine year of manufacture of HP test set (particularly 8920A) by s/n?

We have one HP8920A non-functioning unit here. Tried to look for options label and seen options 1, 6 and some others but opt 055 is not listed on label. It was working, but power supply and display was swapped in the past to fix two more useful units with SA and high power attenuators.

Now I need to determine - does it have mechanical or electronic attenuator? It is not easy right now to disassemble this unit and look to input section label. All I was able to do is check for opt 55 (that is not listed), so I written down s/n (starting with 3922A or S922A, label is slightly damaged and upper part of first character is unreadable.)

I seen some note on Amtronix website, stating that mechanical attenuator in 8920A was standard until 1999 (if memory serves me correctly) and in later units mechanical attenuator was option 055.

So, is it possible to determine year of manufacture by s/n? Does it worth to try to fix it for some time by "borrowing" parts from my own test set (unfortunately, the one with electronic attenuator and not very trustworthy below 15m band) to complete HF ham radio project that need RF generator and milliwatt range power meter that is calibrated down to 1.8 MHz?

--
Sincerely,
Yuri mailto:yuri@...

# 2071. Re: [hp8924] HP8920A - is it possible to determine year of manufacture by serial number?

Yahoo group: hp8924
Date: 2015-02-23 07:32:47 UTC
From: Robert Atkinson
Topic: 2070  Message: 2071

Hi Yuri,Yes you can decode the serial No. to get the date e.g. a HP 8924C has the serial like "US39063842"

US = Made in USA
39 = Manufactured in 1999 (19"39"+60) But it's simpler than that. If it's an "A" model with no opt 055 it will have a mechanical attenuator.Yes it is worth fixing. Even if you have to use an external power supply and VGA monitor (with converter) it is still a usable piece of equipment. Robert G8RPI.

From: "Yuri Ostry yuri@ostry.ru [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Monday, 23 February 2015, 4:06
Subject: [hp8924] HP8920A - is it possible to determine year of manufacture by serial number?

Hello,

Here is one question to gurus...

Is it possible to determine year of manufacture of HP test set (particularly 8920A) by s/n?

We have one HP8920A non-functioning unit here. Tried to look for options label and seen options 1, 6 and some others but opt 055 is not listed on label. It was working, but power supply and display was swapped in the past to fix two more useful units with SA and high power attenuators.

Now I need to determine - does it have mechanical or electronic attenuator? It is not easy right now to disassemble this unit and look to input section label. All I was able to do is check for opt 55 (that is not listed), so I written down s/n (starting with 3922A or S922A, label is slightly damaged and upper part of first character is unreadable.)

I seen some note on Amtronix website, stating that mechanical attenuator in 8920A was standard until 1999 (if memory serves me correctly) and in later units mechanical attenuator was option 055.

So, is it possible to determine year of manufacture by s/n? Does it worth to try to fix it for some time by "borrowing" parts from my own test set (unfortunately, the one with electronic attenuator and not very trustworthy below 15m band) to complete HF ham radio project that need RF generator and milliwatt range power meter that is calibrated down to 1.8 MHz?

--
Sincerely,
Yuri mailto:yuri@...

# 2072. Re: HP8920A - is it possible to determine year of manufacture by serial number?

Yahoo group: hp8924
Date: 2015-02-23 13:42:45 UTC
From: clif@...
Topic: 2070  Message: 2072

The regular HP serial numbers are decoded as for example my SA has SN 3523A0xxxx. The first number is the decade starting with 60, add 3 = 90's. Second number is year. Last 2 numbers are week.

My SA was made in the 23rd week of 95
My 8920 has 3339Axxxx, made 39th week of 93

# 2073. Re: [hp8924] HP8920A - is it possible to determine year of manufacture by serial number?

Yahoo group: hp8924
Date: 2015-02-25 15:59:20 UTC
From: Yuri Ostry
Topic: 2070  Message: 2073

Re: [hp8924] HP8920A - is it possible to determine year of manufacture by serial number?
Hello,
Monday, February 23, 2015, 10:32:47, Robert G8RPI wrote:

But it's simpler than that. If it's an "A" model with no opt 055 it will have a mechanical attenuator.

I found some notes about option 009 - electronic attenuator for 8920A, but this option was not listed in latest manuals.

By the way, I seen some strange options on lebels of some instrumnts, like 8ZA. Not sure what is it, some customization in hardware, or some sort of service contract or extended warranty...

Yes it is worth fixing. Even if you have to use an external power supply and VGA monitor (with converter) it is still a usable piece of equipment.

A friend of mine working for company that act as "system integrator". They build various electronic systems for buildings, including access control and security CCTV systems. In the past they used few types of TFT LCD monitors with composite video input. One of them was approx. 6" diagonal with 4:3 screen, designed to be installed into cutout in panel or console. This model is now discontinued by manufacturer, but they keep few in stock as replacement parts for installed systems. I plan to get one to test with 8920 video out soon.

--
Best regards,
Yuri ? ? ? ? ? ? ? ? ? ? ?mailto:yuri@...

# 2074. 8920A/B Items for Sale

Yahoo group: hp8924
Date: 2015-03-03 04:07:03 UTC
From: jsternmd@...
Topic: 2074  Message: 2074

I sold my 8920B and have some NOS parts that may be of interest:

NOS 8920A/B Rubber Keypad – Purchased direct from Agilent Parts. If the lettering on your rubber keys are wearing down this one is for you - same as what I paid --- $65 plus $6 USPS Priority Shipping

NOS 8920A/B Option 14 – 6kHz Band Pass Filter Retrofit Kit – opened but never installed --- $75 plus shipping $10 USPS shipping

HP 11807E opt 100 RF Tests Tools Card --- $50 plus $6 USPS Priority Shipping

New – GBS 8200 v4.0 Video Board --- $15 plus $6 USPS Priority Shipping

NOS – National Instruments GPIB PC ISA Board --- $20 plus $6 USPS Priority Shipping

Prefer Money Order. Paypal OK but add 3%

Check my Ebay 100% ratings user id : jxstern

Jerry
K1JOS

Email: k1jos@arrl.net mailto:k1jos@arrl.net

# 2075. HP8920 & GBS8200 video converter info - Help needed

Yahoo group: hp8924
Date: 2015-03-23 10:08:10 UTC
From: richnaomi@...
Topic: 2075  Message: 2075

Hi guys,

I have just purchased a GBS8200 video converter and would like to hook it up via a sync separator to provide monitor/VGA video for my 8920.

There are a few photos and a couple of PDF documents in the files section but I'm wondering if anyone has any better/clearer instructions for connecting the sync separator circuit to the GBS8200.

The instructions in the files section seem a bit vague as to what pins to connect to. Also, there doesn't appear to be any reference to the additional variable resistor/resistors on the GBS8200 board.

Any help would be welcome - Thanks in advance.

Rick

# 2076. Re: 8924C with a gbs-8200 converter

Yahoo group: hp8924
Date: 2015-03-23 10:20:39 UTC
From: richnaomi@...
Topic: 1549  Message: 2076

trying to do this myself but where is the reference to the additional 5x resistors??

Thanks
Rick

# 2077. Re: [hp8924] HP8920 & GBS8200 video converter info - Help needed

Yahoo group: hp8924
Date: 2015-03-23 18:27:57 UTC
From: Ralph Mowery
Topic: 2075  Message: 2077

There are two different chips used for the sync separator.  Which one are you looking at ?
 I am thinking one uses just a common op amp  and the other uses a specific sync separator chip.  The one I built from the instructions used the sync separator chip.
I am also thinking that I had to move one of the wires on the plug that came with the sync separator to another pin.

From: "richnaomi@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Monday, March 23, 2015 6:08 AM
Subject: [hp8924] HP8920 & GBS8200 video converter info - Help needed

<!--#yiv7709100696 #yiv7709100696 .yiv7709100696ygrp-photo-title{clear:both;font-size:smaller;height:15px;overflow:hidden;text-align:center;width:75px;}#yiv7709100696 div.yiv7709100696ygrp-photo{background-position:center;background-repeat:no-repeat;background-color:white;border:1px solid black;height:62px;width:62px;}#yiv7709100696 div.yiv7709100696photo-title a, #yiv7709100696 div.yiv7709100696photo-title a:active, #yiv7709100696 div.yiv7709100696photo-title a:hover, #yiv7709100696 div.yiv7709100696photo-title a:visited {text-decoration:none;}#yiv7709100696 div.yiv7709100696attach-table div.yiv7709100696attach-row {clear:both;}#yiv7709100696 div.yiv7709100696attach-table div.yiv7709100696attach-row div {float:left;}#yiv7709100696 p {clear:both;padding:15px 0 3px 0;overflow:hidden;}#yiv7709100696 div.yiv7709100696ygrp-file {width:30px;}#yiv7709100696 div.yiv7709100696attach-table div.yiv7709100696attach-row div div a {text-decoration:none;}#yiv7709100696 div.yiv7709100696attach-table div.yiv7709100696attach-row div div span {font-weight:normal;}#yiv7709100696 div.yiv7709100696ygrp-file-title {font-weight:bold;}#yiv7709100696 --> <!--#yiv7709100696 #yiv7709100696ygrp-mkp {border:1px solid #d8d8d8;font-family:Arial;margin:10px 0;padding:0 10px;}#yiv7709100696 #yiv7709100696ygrp-mkp hr {border:1px solid #d8d8d8;}#yiv7709100696 #yiv7709100696ygrp-mkp #yiv7709100696hd {color:#628c2a;font-size:85%;font-weight:700;line-height:122%;margin:10px 0;}#yiv7709100696 #yiv7709100696ygrp-mkp #yiv7709100696ads {margin-bottom:10px;}#yiv7709100696 #yiv7709100696ygrp-mkp .yiv7709100696ad {padding:0 0;}#yiv7709100696 #yiv7709100696ygrp-mkp .yiv7709100696ad p {margin:0;}#yiv7709100696 #yiv7709100696ygrp-mkp .yiv7709100696ad a {color:#0000ff;text-decoration:none;}-->

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The instructions in the files section seem a bit vague as to what pins to connect to.
Also, there doesn't appear to be any reference to the additional variable resistor/resistors on the GBS8200 board.

Any help would be welcome - Thanks in advance.

Rick

# 2078. Re: [hp8924] HP8920 & GBS8200 video converter info - Help needed

Yahoo group: hp8924
Date: 2015-03-23 19:36:39 UTC
From: William Bird
Topic: 2075  Message: 2078

I just finished this build. Used the GBS8200 and LM1881 chip to build a sync separator.

There are two main steps. Build and wire the sync separator circuit to the GBS8200. And modify the GBS8200 itself.

The separator is fairly simple. Take the video feed and wire to both the separator circuit and whatever RGB Inputs you would like to use on the 8200. Then take the sync signal output and connect it to the sync input on the 8200. I used a scope to verify the sync circuit was operating correctly but this isn't necessary. I used the big pins on the 8200 and soldered right to them.

The GBS8200 needs to have some resistors added as per the photos. 50k resistors are added in parallel over the SMT capacitors as shown in the photos. And in addition to that - 33k resistors from the RGB Inputs are wired to ground in order to eliminate some "background color" on the feed. I believe instead of the 33k resistors you can also hook up a pot and than adjust to your liking. But I opted for the resistors since I had them laying around. These modifications eliminate a buildup of a DC bias which will eventually fade the image on the screen.

--Will

Sent from mobile.

> On Mar 23, 2015, at 2:27 PM, Ralph Mowery ku4pt@... [hp8924] <hp8924@yahoogroups.com> wrote:
>
> There are two different chips used for the sync separator. Which one are you looking at ? I am thinking one uses just a common op amp and the other uses a specific sync separator chip. The one I built from the instructions used the sync separator chip.
>
> I am also thinking that I had to move one of the wires on the plug that came with the sync separator to another pin.
>
>
> From: "richnaomi@... [hp8924]" <hp8924@yahoogroups.com>
> To: hp8924@yahoogroups.com
> Sent: Monday, March 23, 2015 6:08 AM
> Subject: [hp8924] HP8920 & GBS8200 video converter info - Help needed
>
>
>
> Hi guys,
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> I have just purchased a GBS8200 video converter and would like to hook it up via a sync separator to provide monitor/VGA video for my 8920.
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> Also, there doesn't appear to be any reference to the additional variable resistor/resistors on the GBS8200 board.
>
> Any help would be welcome - Thanks in advance.
>
> Rick
>
>
>
>

# 2079. RE: [hp8924] HP8920 & GBS8200 video converter info - Help needed

Yahoo group: hp8924
Date: 2015-03-23 21:25:45 UTC
From: Mike Besemer
Topic: 2075  Message: 2079

Is there a place where all of this is documented in a single file? I see bits and pieces, but nothing specifically about what exactly has to be done to the GBS8200.

Mike
WM4B

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com]
Sent: Monday, March 23, 2015 3:37 PM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] HP8920 & GBS8200 video converter info - Help needed

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The GBS8200 needs to have some resistors added as per the photos. 50k resistors are added in parallel over the SMT capacitors as shown in the photos. And in addition to that - 33k resistors from the RGB Inputs are wired to ground in order to eliminate some "background color" on the feed. I believe instead of the 33k resistors you can also hook up a pot and than adjust to your liking. But I opted for the resistors since I had them laying around. These modifications eliminate a buildup of a DC bias which will eventually fade the image on the screen.

--Will

Sent from mobile.

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---
From: "richnaomi@internode.on.net [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Monday, March 23, 2015 6:08 AM

Subject: [hp8924] HP8920 & GBS8200 video converter info - Help needed

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Any help would be welcome - Thanks in advance.

Rick

# 2080. Re: [hp8924] HP8920 & GBS8200 video converter info - Help needed

Yahoo group: hp8924
Date: 2015-03-23 21:37:00 UTC
From: Robert Atkinson
Topic: 2075  Message: 2080

Hi Mike,No I don't think it all is in one place. I'm pretty sure I was the first group member to try a GBS8200 and proved it basically worked. I used a LM1881 sync separator. Previously I had tried using various Extron converters intended for interfacing compters to projection TVs with limited success. Other members contributed alternative separator circuits and information in the additional resistors needed to prevent DC offsets. However no-one has put it all togeter as one file.
Robert G8RPI.

From: "'Mike Besemer' mwbesemer@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Monday, 23 March 2015, 21:25
Subject: RE: [hp8924] HP8920 & GBS8200 video converter info - Help needed

Is there a place where all of this is documented in a single file? I see bits and pieces, but nothing specifically about what exactly has to be done to the GBS8200.

Mike
WM4B

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com]
Sent: Monday, March 23, 2015 3:37 PM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] HP8920 & GBS8200 video converter info - Help needed

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--Will

Sent from mobile.

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---
From: "richnaomi@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Monday, March 23, 2015 6:08 AM
Subject: [hp8924] HP8920 & GBS8200 video converter info - Help needed

Hi guys,

I have just purchased a GBS8200 video converter and would like to hook it up via a sync separator to provide monitor/VGA video for my 8920.

There are a few photos and a couple of PDF documents in the files section but I'm wondering if anyone has any better/clearer instructions for connecting the sync separator circuit to the GBS8200.

The instructions in the files section seem a bit vague as to what pins to connect to. Also, there doesn't appear to be any reference to the additional variable resistor/resistors on the GBS8200 board.

Any help would be welcome - Thanks in advance.

Rick

# 2081. RE: [hp8924] HP8920 & GBS8200 video converter info - Help needed

Yahoo group: hp8924
Date: 2015-03-23 21:49:13 UTC
From: Mike Besemer
Topic: 2075  Message: 2081

Thanks Robert. I'd like to give it a try, but have a lot of irons in the fire at the moment. Perhaps, if I can get to it, I can fully document the process.

Mike
WM4B

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com]
Sent: Monday, March 23, 2015 5:37 PM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] HP8920 & GBS8200 video converter info - Help needed

Hi Mike,
No I don't think it all is in one place. I'm pretty sure I was the first group member to try a GBS8200 and proved it basically worked. I used a LM1881 sync separator. Previously I had tried using various Extron converters intended for interfacing compters to projection TVs with limited success. Other members contributed alternative separator circuits and information in the additional resistors needed to prevent DC offsets. However no-one has put it all togeter as one file.

Robert G8RPI.

---
From: "'Mike Besemer' mwbesemer@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Monday, 23 March 2015, 21:25
Subject: RE: [hp8924] HP8920 & GBS8200 video converter info - Help needed

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Mike
WM4B

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com]
Sent: Monday, March 23, 2015 3:37 PM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] HP8920 & GBS8200 video converter info - Help needed

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Sent from mobile.

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I am also thinking that I had to move one of the wires on the plug that came with the sync separator to another pin.

_____
From: "richnaomi@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Monday, March 23, 2015 6:08 AM
Subject: [hp8924] HP8920 & GBS8200 video converter info - Help needed

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There are a few photos and a couple of PDF documents in the files section but I'm wondering if anyone has any better/clearer instructions for connecting the sync separator circuit to the GBS8200.

The instructions in the files section seem a bit vague as to what pins to connect to. Also, there doesn't appear to be any reference to the additional variable resistor/resistors on the GBS8200 board.

Any help would be welcome - Thanks in advance.

Rick

# 2082. Re: HP8920 & GBS8200 video converter info - Help needed

Yahoo group: hp8924
Date: 2015-03-23 22:09:17 UTC
From: richnaomi@...
Topic: 2075  Message: 2082

Thanks all for replying.

I'm pretty sure I've worked out the Sync separator - GB8200 interfacing, I just wasn't clear on the role and location of the additional resistors on the GBS8200 board.

There are a few photos in the files section but very little supporting information about what the additional resistors actually do.

Anyway, a big thanks to the original poster and others who have contributed for this project.

Cheers,
Rick

# 2083. Re: 8924C with a gbs-8200 converter

Yahoo group: hp8924
Date: 2015-03-31 09:28:29 UTC
From: richnaomi@...
Topic: 1549  Message: 2083

Just a followup on this.

I managed to fit the additional SMD resistors and have it all working well after tweaking the color levels to find a color I like.

Thanks all for the info.

Cheers, Rick

# 2084. 8924 power supply dead

Yahoo group: hp8924
Date: 2015-04-05 18:37:09 UTC
From: mburrus@...
Topic: 2084  Message: 2084

Hello all...

i replaced the supply on my 8924 once before and it brought the unit back to life, now the unit will not power on at all. does anyone have a schematic for the supply (or know what pins to jumper to turn the supply on?) or any information on common failure modes? it seems these supplies are prone to failure and the fix is easy, if you know what to fix!

thanks
merritt
ki4gqo

# 2085. RE: [hp8924] 8924 power supply dead

Yahoo group: hp8924
Date: 2015-04-05 18:42:28 UTC
From: Mike Besemer
Topic: 2084  Message: 2085

Meritt,

Check the Files section of the Yahoo Group…. I think you'll find something there.

Mike
WM4B

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com]
Sent: Sunday, April 5, 2015 2:37 PM
To: hp8924@yahoogroups.com
Subject: [hp8924] 8924 power supply dead

Hello all...

i replaced the supply on my 8924 once before and it brought the unit back to life, now the unit will not power on at all. does anyone have a schematic for the supply (or know what pins to jumper to turn the supply on?) or any information on common failure modes? it seems these supplies are prone to failure and the fix is easy, if you know what to fix!

thanks
merritt
ki4gqo

# 2086. RE: [hp8924] 8924 power supply dead

Yahoo group: hp8924
Date: 2015-04-05 20:21:23 UTC
From: mburrus@...
Topic: 2084  Message: 2086

THANKS! got everything relevant, i will start troubleshooting soon!

# 2087. RE: [hp8924] 8924 power supply dead

Yahoo group: hp8924
Date: 2015-04-05 22:10:13 UTC
From: mburrus@...
Topic: 2084  Message: 2087

UPDATE!! the standby 15vdc rail was out, replaced C5 (47uf at 50v) on the J3 sub board with a 100uf at 50V... works great!!

thanks for guiding me towards the power supply repair files in the group! saved me $250..!

# 2088. 8920A Analomy

Yahoo group: hp8924
Date: 2015-04-09 02:16:40 UTC
From: clif@...
Topic: 2088  Message: 2088

I added a spectrum analyzer and sig gen lately to the pile (both go up to 3 GHz). I was looking around and noticed that the output from my 8920A was 3-4 dB lower when thru the RF In/Out rather than the Duplex out port. Below 100 MHz it was close but at 500 MHz it was 3.5 dB lower and varied from 3-5 dB between 100-990 MHz.

I was comparing the output of the 8664A Sig Gen to the 8920A when I noticed it. Both were viewed on an 8594E SA. Strange. I guess when I have time I'll have to dig out the calibration info and see what can be done.

# 2089. HP 8920 & HP 8921

Yahoo group: hp8924
Date: 2015-04-22 18:00:17 UTC
From: Ralph S. Turk
Topic: 2089  Message: 2089

What is the procedure to reset the unit back to factory defaults?

# 2090. Re: HP 8920 & HP 8921

Yahoo group: hp8924
Date: 2015-04-22 18:21:07 UTC
From: Robert Atkinson
Topic: 2089  Message: 2090

Hi,you can clear all the saved registers by,To Clear All Save Registers
1. Press RECALL.
2. Use the knob to position the cursor in front of the *Clr All* entry in the Recall menu at the bottom-right of the screen.
3. Press the knob or press ENTER. A prompt appears at the top of the screen to verify that you want to clear all registers.
4. Press YES.
Most factory defaults can be set by the instrument state keys
• [LOCAL] returns the instrument to manual control after GPIB control is used.
• [RECALL] lists any instrument setups that were saved.
• [MEAS RESET] clears the measurement “history” for all of the instrument’s measurement algorithms (such as the averaging function) to restart all measurements that are in progress.
• [PRESET] restores most instrument settings to their factory default states, (although most CONFIGURE screen changes are not affected). Instrument self-diagnostics are not run at this time.
• ADRS ([SHIFT], [LOCAL]) displays the GPIB address of the Test Set.
• SAVE ([SHIFT], [RECALL]) stores instrument setups.
HTH,Robert G8RPI.

# 2091. Re: [hp8924] Re: HP 8920 & HP 8921

Yahoo group: hp8924
Date: 2015-04-22 21:05:23 UTC
From: Ralph S. Turk
Topic: 2089  Message: 2091

Robert.
Thanks for the info. I had some of it but not all.
Ralph, W7HSG

----- Original Message -----

From: "Robert Atkinson robert8rpi@... [hp8924]" <hp8924@yahoogroups.com>
To: "hp8924" <hp8924@yahoogroups.com>
Sent: Wednesday, April 22, 2015 11:21:07 AM
Subject: [hp8924] Re: HP 8920 & HP 8921

Hi,

# 2092. Where to find SRAM cards and which capacities are supported

Yahoo group: hp8924
Date: 2015-04-23 00:47:45 UTC
From: ea5125ure@...
Topic: 2092  Message: 2092

Hi,

I'm a new owner of a HP 8924C and I'm looking for a cheap SRAM card solution. I found this:
MELCARD MITSUBISHI 8MB SRAM CARD MF38M1-9VDAG01
http://www.ebay.com/itm/MELCARD-MITSUBISHI-8MB-SRAM-CARD-MF38M1-9VDAG01-/301207780173

http://www.ebay.com/itm/MELCARD-MITSUBISHI-8MB-SRAM-CARD-MF38M1-9VDAG01-/301207780173

MELCARD MITSUBISHI 8MB SRAM CARD MF38M1-9...
http://www.ebay.com/itm/MELCARD-MITSUBISHI-8MB-SRAM-CARD-MF38M1-9VDAG01-/301207780173 US $30.00 Used in Computers/Tablets & Networking, Laptop & Desktop Accessories, Other

View on www.ebay.com
http://www.ebay.com/itm/MELCARD-MITSUBISHI-8MB-SRAM-CARD-MF38M1-9VDAG01-/301207780173
Preview by Yahoo

(No endorsement whatsoever, may or may not be reputable, buyer beware, etc)

I wonder if anyone else has tips, as well as information on how to interface these cards to read/write using modern systems (ExpressCard or USB based).

Last but not least, do we know which cards are supported and those that aren't? Mostly concerning capacity.

Thanks!

# 2093. Re: Where to find SRAM cards and which capacities are supported

Yahoo group: hp8924
Date: 2015-04-23 06:47:11 UTC
From: Robert Atkinson
Topic: 2092  Message: 2093

Hi,The MELCARDs work OK, certainly smaller ones. I've not seen a specification for the memory card maximum capacity, but looking at the CLIP schematic for the 8920A A8 memory module, only 21 address lines are connected to the external card so the maximum addressable space is 2MB for the old EPSON cards. This is more than you should ever need and would be a safe limit for PCMCIA to maintain compatibility. I don't have a circuit for the 8920B/8924C A8 card with PCMCIA. However the basic PCMCIA interface has 25 address lines. This limits the linear addressing capacity to 32MB so we can be sure that this is the upper limit. Anything card over 32MB will use either the ATA interface or some other scheme and should not be considered useable in a 892X. Note in particular that CF cards in PCMCIA adaptors will NOT work in a 892X. Writing to these cards with modern PC's is an issue. They are addressed as a linear memory space, not a disk system like FAT. Most PCMCIA card readers only support ATA(IDE) access. The readers of choice were the ELAN units, but Elan have gone out of business. The easy solution is to pickup a cheap old WIN 98 or XP laptop and use that. If you want to use FLASH cards, that's a whole new issue. HTH,Robert G8RPI.

# 2094. Re: [hp8924] Re: Where to find SRAM cards and which capacities are supported

Yahoo group: hp8924
Date: 2015-04-23 11:46:04 UTC
From: EA5125URE
Topic: 2092  Message: 2094

Robert,

Thanks for the detailed response. I believe I'm going to get one of those cards, although I'm somewhat disappointed we cannot interface easily with the SRAM (maybe somebody has worked on a micro-controller based solution? this shouldn't be too hard to accomplish, linear memory access is easy).

I found these readers:
http://www.psism.com/pcd-tp-202cs.htm
http://www.psism.com/pcd-tp-220cs.htm

They seem to fit the bill, at 79 USD one of the models. I'm not sure on Windows, but on Linux it might be pretty easy to rely on the MMC or related interface to read and write the cards directly. No specific drivers needed there.

I have an older laptop with PCMCIA that might be well suited as a donor, though, so we will see. I'm not very familiar yet with how the card storage is used and whether I would be using it often or not. Right now my top priorities are restoring the unit (broken potentiometer for volume, 25K Bourns model, linear taper, plus knob) and most likely building a vertical mounting frame with wheels so I can use the rig without taking much space on my desk.

73,
M

On 04/23/2015 8:47 AM, Robert Atkinson robert8rpi@... [hp8924] wrote:
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> Hi,
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> specification for the memory card maximum capacity, but looking at the
> CLIP schematic for the 8920A A8 memory module, only 21 address lines
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> linear addressing capacity to 32MB so we can be sure that this is the
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> or some other scheme and should not be considered useable in a 892X.
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>
> HTH,
> Robert G8RPI.
>

# 2095. Re: [hp8924] Re: Where to find SRAM cards and which capacities are supported

Yahoo group: hp8924
Date: 2015-04-23 12:03:06 UTC
From: Robert Atkinson
Topic: 2092  Message: 2095

Hi,You need to decide what you want to use the card for. The most common use was uploading programs such as RF Tools (I can still supply this software to list members on a Flash PCMCIA card). and storing set-ups. It does not have a lot of utility for anythig else. You can download the screen using a free utility and a serial lead. See http://www.amtronix.com/8920btsinfo.htm If you want to use the PCMCIA card on a PC you will need software to access it. It's not a DOS (FAT, FAT16) formatted disk. I'd play with the laptop before investing in a internal reader.  Robert G8RPI.

From: "EA5125URE ea5125ure@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Thursday, 23 April 2015, 12:46
Subject: Re: [hp8924] Re: Where to find SRAM cards and which capacities are supported

Robert,

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# 2096. Re: [hp8924] Re: Where to find SRAM cards and which capacities are supported

Yahoo group: hp8924
Date: 2015-04-23 12:15:26 UTC
From: EA5125URE
Topic: 2092  Message: 2096

Robert,

I would like to backup the contents (including a dump of the calibration data), so reading the card would be useful no doubt. I understood they are linearly addressed, not block based, hence why I mentioned MMC in Linux, which is used for direct memory chip access (it is the backend for SD cards, etc).
I'm interested on RF Tools. Where can I find the most recent copy? Is there a comprehensive manual somewhere?

I will experiment first with a Linux/XP dual boot older laptop and see how that fares.

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> Hi,
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> It does not have a lot of utility for anythig else. You can download
> the screen using a free utility and a serial lead. See
> http://www.amtronix.com/8920btsinfo.htm
> If you want to use the PCMCIA card on a PC you will need software to
> access it. It's not a DOS (FAT, FAT16) formatted disk. I'd play with
> the laptop before investing in a internal reader.
>
>
> Robert G8RPI.
>
> ---
> *From:* "EA5125URE ea5125ure@... [hp8924]" <hp8924@yahoogroups.com>
> *To:* hp8924@yahoogroups.com
> *Sent:* Thursday, 23 April 2015, 12:46
> *Subject:* Re: [hp8924] Re: Where to find SRAM cards and which
> capacities are supported
>
>
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> can use the rig without taking much space on my desk.
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> 73,
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> <mailto:robert8rpi@...> [hp8924] wrote:
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>> use that. If you want to use FLASH cards, that's a whole new issue.
>>
>> HTH,
>> Robert G8RPI.
>
>
>
>

# 2098. Re: [hp8924] HP 8920 & HP 8921

Yahoo group: hp8924
Date: 2015-04-23 13:53:22 UTC
From: Donald Forshee
Topic: 2089  Message: 2098

To reset all, go to the config screen (shift-config) then select "service" (at the botton of the "To Screen" menu...)
At the bottom of the service screen you should see "Clear all RAM and restart" (This may be firmware dependent, I have A.14.11 and A.14.14)
This procedure straightens out things that nothing else will.

Don.

---
On Wed, 4/22/15, 'Ralph S. Turk' w7hsg@... [hp8924] <hp8924@yahoogroups.com> wrote:

Subject: [hp8924] HP 8920 & HP 8921
To: "hp8924" <hp8924@yahoogroups.com>
Date: Wednesday, April 22, 2015, 1:00 PM

What is the procedure to reset the unit back to factory defaults?

# 2099. Re: [hp8924] Re: Where to find SRAM cards and which capacities are supported

Yahoo group: hp8924
Date: 2015-04-23 16:31:53 UTC
From: Robert Atkinson
Topic: 2092  Message: 2099

Hi,There are copies of RF tools and NA FM Tests in the group files section. They are a collection of utilities that automate swept meaurements (turning the 8924C into a scalar network analyser), a scanning receiver and other functions. The manuals are there too and here http://literature.cdn.keysight.com/litweb/pdf/11807-90116.pdfhttp://literature.cdn.keysight.com/litweb/pdf/11807-90141.pdf
The programs are part No. 11807E options 001 and 100 (note that the 11807A is on a Epson "edge" card and is for the 8920A model).There is an old program "memory card explorer which can write the files to a linear card. I can supply a copy of the programs on a linear Flash PCMCIA card for $65 including shipping.
Robert G8RPI.

From: "EA5125URE ea5125ure@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Thursday, 23 April 2015, 13:15
Subject: Re: [hp8924] Re: Where to find SRAM cards and which capacities are supported

Robert,

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To: hp8924@yahoogroups.com
Sent: Thursday, 23 April 2015, 12:46
Subject: Re: [hp8924] Re: Where to find SRAM cards and which capacities are supported

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# 2100. Re: [hp8924] Re: Where to find SRAM cards and which capacities are supported

Yahoo group: hp8924
Date: 2015-04-23 16:40:57 UTC
From: clif@...
Topic: 2092  Message: 2100

Can you write the FM tests to an Epson card for the 8920A. I have the original but want a backup. Meanwhile I will download the software and archive it. I'm wondering if the archived file could be sent to the 8920A using one of the file transfer programs? I'm not very computer literate.

# 2101. Re: [hp8924] Re: Where to find SRAM cards and which capacities are supported

Yahoo group: hp8924
Date: 2015-04-23 16:47:51 UTC
From: Robert Atkinson
Topic: 2092  Message: 2101

If you have a blank Epson RAM card, you can copy the original program card (ROM) to the 8920A's memory, swap cards and then save it back to the RAM card.

# 2102. Re: [hp8924] Re: Where to find SRAM cards and which capacities are supported

Yahoo group: hp8924
Date: 2015-04-23 16:56:28 UTC
From: clif@...
Topic: 2092  Message: 2102

That won't work, I've tried it. All it will copy back is the custom settings you made for individual tests. If you have a different way of doing it I would appreciate it.

Also I can't find the .bin file for 11807A Opt 001 NA FM tests. I found the 100 files.

I'm guessing the 11807 files are the same for A and B models just on a different card?

# 2103. Re: [hp8924] Re: Where to find SRAM cards and which capacities are supported

Yahoo group: hp8924
Date: 2015-04-23 17:00:45 UTC
From: N9LLO@...
Topic: 2092  Message: 2103

I uploaded a binary file a long time ago here that had rf tools an NA fm on it. I am using it right now.

Chris
N9LLO

> On Apr 23, 2015, at 12:56 PM, "clif@... [hp8924]" <hp8924@yahoogroups.com> wrote:
>
> That won't work, I've tried it. All it will copy back is the custom settings you made for individual tests. If you have a different way of doing it I would appreciate it.
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# 2104. RE: [hp8924] Re: Where to find SRAM cards and which capacities are supported

Yahoo group: hp8924
Date: 2015-04-23 17:01:51 UTC
From: Adam Farson
Topic: 2092  Message: 2104

Hi Robert,

Is there any way of getting the NA FM Tests to run on the 8935?

73, Adam VA7OJ/AB4OJ

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com]
Sent: 23-Apr-15 09:32
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Re: Where to find SRAM cards and which capacities are supported

Hi,

There are copies of RF tools and NA FM Tests in the group files section. They are a collection of utilities that automate swept meaurements (turning the 8924C into a scalar network analyser), a scanning receiver and other functions. The manuals are there too and here

http://literature.cdn.keysight.com/litweb/pdf/11807-90116.pdf

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The programs are part No. 11807E options 001 and 100 (note that the 11807A is on a Epson "edge" card and is for the 8920A model).

There is an old program "memory card explorer which can write the files to a linear card. I can supply a copy of the programs on a linear Flash PCMCIA card for $65 including shipping.

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Sent: Thursday, 23 April 2015, 13:15
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HTH,

Robert G8RPI.

# 2105. RE: [hp8924] Re: Where to find SRAM cards and which capacities are supported

Yahoo group: hp8924
Date: 2015-04-23 18:26:05 UTC
From: Robert Atkinson
Topic: 2092  Message: 2105

Hi,I don't have an 8935 to try it on. It should work OK but you may have to edit the configuration entries in the file. It's written in basic. Clif, Chris is correct, the BIN fle has options 001 and 100 on a single card.
G8RPI.

# 2106. Re: [hp8924] Re: Where to find SRAM cards and which capacities are supported

Yahoo group: hp8924
Date: 2015-04-23 19:39:50 UTC
From: Robert Atkinson
Topic: 2092  Message: 2106

Hi Clif,You have to go into the iBasic controller and copy the files. The options built into the application just save the parameters.
G8RPI.

# 2107. RE: [hp8924] Re: Where to find SRAM cards and which capacities are supported

Yahoo group: hp8924
Date: 2015-04-23 20:36:02 UTC
From: clif@...
Topic: 2092  Message: 2107

Ok, I'll download that file and save it. When you start talking about going into I-basic you are creeping out of my range. At one time years ago I was going to learn basic but other things got in the way. I think a lot of it had to do with Windoze. Much too complicated for me. DOS I could work with at one time.

I probably need to learn how to save it as I don't think the original will last forever, although it has lasted almost 20 years so far.

# 2108. Re: [hp8924] Re: Where to find SRAM cards and which capacities are supported

Yahoo group: hp8924
Date: 2015-04-23 21:53:30 UTC
From: Ralph S. Turk
Topic: 2092  Message: 2108

If anyone finds a reasonable price source for the EPSON cards, I would like to get 2 or 3 for my 8920A & 8921A
Ralph, W7HSG

----- Original Message -----

From: "Robert Atkinson robert8rpi@... [hp8924]" <hp8924@yahoogroups.com>
To: "hp8924" <hp8924@yahoogroups.com>
Sent: Thursday, April 23, 2015 9:31:53 AM
Subject: Re: [hp8924] Re: Where to find SRAM cards and which capacities are supported

, is on a Epson "edge" card and is for the 8920A model).

# 2109. Re: [hp8924] Re: Where to find SRAM cards and which capacities are supported

Yahoo group: hp8924
Date: 2015-04-23 21:54:45 UTC
From: Ralph Mowery
Topic: 2092  Message: 2109

You don't really need to know Basic or the special IBasic.
To get the programs to work with some of the different models it needs to be eddited.  Just use a program like Notepad ot Write to open it.  It is just line by numbered line.  Go the the specific line number number and change it.  Then save the program.
I forgot about what model you have, but RF Tools worked for me on the 8924C but the NA part would not work.  Someone posted the changes that were needed and after I did that, it worked fine.

From: "clif@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Thursday, April 23, 2015 4:36 PM
Subject: RE: [hp8924] Re: Where to find SRAM cards and which capacities are supported

<!--#yiv5759342459 #yiv5759342459 .yiv5759342459ygrp-photo-title{clear:both;font-size:smal
ler;height:15px;overflow:hidden;text-align:center;width:75px;}#yiv5759342459 div.yiv575934
2459ygrp-photo{background-position:center;background-repeat:no-repeat;background-color:whi
te;border:1px solid black;height:62px;width:62px;}#yiv5759342459
div.yiv5759342459photo-title a, #yiv5759342459 div.yiv5759342459photo-title a:active,
#yiv5759342459 div.yiv5759342459photo-title a:hover, #yiv5759342459
div.yiv5759342459photo-title a:visited {text-decoration:none;}#yiv5759342459
div.yiv5759342459attach-table div.yiv5759342459attach-row {clear:both;}#yiv5759342459
div.yiv5759342459attach-table div.yiv5759342459attach-row div {float:left;}#yiv5759342459
p {clear:both;padding:15px 0 3px 0;overflow:hidden;}#yiv5759342459
div.yiv5759342459ygrp-file {width:30px;}#yiv5759342459 div.yiv5759342459attach-table
div.yiv5759342459attach-row div div a {text-decoration:none;}#yiv5759342459
div.yiv5759342459attach-table div.yiv5759342459attach-row div div span
{font-weight:normal;}#yiv5759342459 div.yiv5759342459ygrp-file-title
{font-weight:bold;}#yiv5759342459 --> <!--#yiv5759342459 #yiv5759342459ygrp-mkp
{border:1px solid #d8d8d8;font-family:Arial;margin:10px 0;padding:0 10px;}#yiv5759342459
#yiv5759342459ygrp-mkp hr {border:1px solid #d8d8d8;}#yiv5759342459 #yiv5759342459ygrp-mkp
#yiv5759342459hd {color:#628c2a;font-size:85%;font-weight:700;line-height:122%;margin:10px
0;}#yiv5759342459 #yiv5759342459ygrp-mkp #yiv5759342459ads
{margin-bottom:10px;}#yiv5759342459 #yiv5759342459ygrp-mkp .yiv5759342459ad {padding:0
0;}#yiv5759342459 #yiv5759342459ygrp-mkp .yiv5759342459ad p {margin:0;}#yiv5759342459
#yiv5759342459ygrp-mkp .yiv5759342459ad a {color:#0000ff;text-decoration:none;}-->

Ok, I'll download that file and save it. When you start talking about going into I-basic you are creeping out of my range. At one time years ago I was going to learn basic but other things got in the way. I think a lot of it had to do with Windoze. Much too complicated for me. DOS I could work with at one time.

I probably need to learn how to save it as I don't think the original will last forever, although it has lasted almost 20 years so far.

_.-._,___

# 2110. RE: [hp8924] Re: Where to find SRAM cards and which capacities are supported

Yahoo group: hp8924
Date: 2015-04-24 05:48:34 UTC
From: farson@...
Topic: 2092  Message: 2110

Hi Robert,

When I try to run NAFM from the 11807E card I purchased from you a few years ago, the program halts with the following errors:

IBASIC Error: -286 Program runtime error
Error 18 in 1380 String overflow or substring error

I also have the programs I downloaded from the group. How do I change the config file, and where do I find this file?

73, Adam VA7OJ/AB4OJ

# 2111. Re: [hp8924] Re: Where to find SRAM cards and which capacities are supported

Yahoo group: hp8924
Date: 2015-04-24 09:26:10 UTC
From: Tim
Topic: 2092  Message: 2111

On 24/04/2015 7:53 AM, 'Ralph S. Turk' w7hsg@... [hp8924] wrote:
> If anyone finds a reasonable price source for the EPSON cards, I would
> like to get 2 or 3
> for my 8920A & 8921A
> Ralph, W7HSG
>
I have one of these in my 8935 and it works fine.

http://www.ebay.com.au/itm/Pretec-SRAM-Card-Attribute-256K-Pn-SRAM256k-/380443724326

regards

Tim

--
VK2XAX :: QF56if23 :: BMARC :: WIA :: AMSATVK

# 2112. Re: [hp8924] Re: Where to find SRAM cards and which capacities are supported

Yahoo group: hp8924
Date: 2015-04-24 11:28:05 UTC
From: Robert Atkinson
Topic: 2092  Message: 2112

Hi,That is not the "EPSON" type card used in the 8920A and many HP spectrum analysers. The EPSON card has no visible contacts or contact holes. It uses an edge type contact protected by a sliding shutter. I daid find an alternative source of Flash cards in the same format and a card reader/writer. Unfortunatly both the Flash writing parameters and the reader were considered secret by the system that used them. The writer used custom software and had an embedded serial number so was useless for anything else. The application was transfer of high value, time limited information to equipment. Robert.

# 2113. Re: [hp8924] Re: Where to find SRAM cards and which capacities are supported

Yahoo group: hp8924
Date: 2015-04-24 14:35:35 UTC
From: Ralph Mowery
Topic: 2092  Message: 2113

This was sent to me a while back and they  are the changes that seem to be needed to get the NAFM  to run on the 8924C.
I made the changes to the program on my 8924c and the program then ran.
A. Make these changes***for Ts_rev$[3])>=08 use the first # of your firmware mines A.08.04***

```
1134 IF Ts_mod$="HP 8924C" OR (VAL(Ts_rev$[3])>=08 AND Cur$="YES") THEN
1397 IF Ts_mod$="HP 8924C" OR VAL(Ts_rev$[3])>=08 THEN
14002 IF Ts_mod$="HP 8924C" OR VAL(Ts_rev$[3])>=08 THEN
```

```
1334 ! IF POS(FNTs_mod$,"8921")<>0 THEN
1335 ! IF POS(I_o$,"TACS")<>0 THEN
1336 ! Flt_1$="CCITT"
1337 ! ELSE
1338 Flt_1$="C MESSAGE"
1339 ! END IF
1340 Flt_2$="6KHZ BPF"
1341 Cur$="YES"
1342 SUBEXIT
1343 ! END IF
1344 IF POS(FNTs_mod$,"8924C")<>0 THEN
```

```
13640 IF FNTs_mod$="HP 8924C" THEN
```

```
13651 IF FNTs_mod$="HP 8924C" THEN
```

```
14027 ! To_ts("*RST")
```

```
14017 ! To_ts("*RST")
```

From: "farson@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Friday, April 24, 2015 1:48 AM
Subject: RE: [hp8924] Re: Where to find SRAM cards and which capacities are supported


```
<!--#yiv9326832140 #yiv9326832140 .yiv9326832140ygrp-photo-title{clear:both;font-size:smal
ler;height:15px;overflow:hidden;text-align:center;width:75px;}#yiv9326832140 div.yiv932683
2140ygrp-photo{background-position:center;background-repeat:no-repeat;background-color:whi
te;border:1px solid black;height:62px;width:62px;}#yiv9326832140
div.yiv9326832140photo-title a, #yiv9326832140 div.yiv9326832140photo-title a:active,
#yiv9326832140 div.yiv9326832140photo-title a:hover, #yiv9326832140
div.yiv9326832140photo-title a:visited {text-decoration:none;}#yiv9326832140
div.yiv9326832140attach-table div.yiv9326832140attach-row {clear:both;}#yiv9326832140
div.yiv9326832140attach-table div.yiv9326832140attach-row div {float:left;}#yiv9326832140
p {clear:both;padding:15px 0 3px 0;overflow:hidden;}#yiv9326832140
```

div.yiv9326832140ygrp-file {width:30px;}#yiv9326832140 div.yiv9326832140attach-table div.yiv9326832140attach-row div div a {text-decoration:none;}#yiv9326832140 div.yiv9326832140attach-table div.yiv9326832140attach-row div div span {font-weight:normal;}#yiv9326832140 div.yiv9326832140ygrp-file-title {font-weight:bold;}#yiv9326832140 --> <!--#yiv9326832140 #yiv9326832140ygrp-mkp {border:1px solid #d8d8d8;font-family:Arial;margin:10px 0;padding:0 10px;}#yiv9326832140 #yiv9326832140ygrp-mkp hr {border:1px solid #d8d8d8;}#yiv9326832140 #yiv9326832140ygrp-mkp #yiv9326832140hd {color:#628c2a;font-size:85%;font-weight:700;line-height:122%;margin:10px 0;}#yiv9326832140 #yiv9326832140ygrp-mkp #yiv9326832140ads {margin-bottom:10px;}#yiv9326832140 #yiv9326832140ygrp-mkp .yiv9326832140ad {padding:0 0;}#yiv9326832140 #yiv9326832140ygrp-mkp .yiv9326832140ad p {margin:0;}#yiv9326832140 #yiv9326832140ygrp-mkp .yiv9326832140ad a {color:#0000ff;text-decoration:none;}-->

Hi Robert,

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IBASIC Error: -286 Program runtime error
Error 18 in 1380 String overflow or substring error

I also have the programs I downloaded from the group. How do I change the config file, and where do I find this file?

73, Adam VA7OJ/AB4OJ

# 2114. Re: [hp8924] HP8920A - is it possible to determine year of manufacture by serial number?

Yahoo group: hp8924
Date: 2015-04-27 15:51:54 UTC
From: yuri@...
Topic: 2070  Message: 2114

Hi Robert!

> But it's simpler than that. If it's an "A" model with no opt 055 it will have a mechanical attenuator.

After firing it up, it is turned out that HP8920A with serial starting from 3922A and _without_ opt 55 on a options label have a electronic attenuator.

So, maybe electronic attenuator become standard even for "A" models after some date.

BR,
Yuri

# 2115. Re: [hp8924] HP8920A - is it possible to determine year of manufacture by serial number?

Yahoo group: hp8924
Date: 2015-04-27 16:40:41 UTC
From: Robert Atkinson
Topic: 2070  Message: 2115

Maybe, or perhaps it was repaired or modified with an electronic attenuator later.
Robert.

# 2116. Re: Where to find SRAM cards and which capacities are supported

Yahoo group: hp8924
Date: 2015-04-28 04:07:48 UTC
From: clif@...
Topic: 2092  Message: 2116

Ok. I follow the going into Ibasic and downloading the program itself. Question is what do I download it to that I can put it on my computer and edit it or save it for future use? And then if I have to use this method to reload the program what am I reloading from.

Computer dummy here.

# 2117. Re: [hp8924] Re: Where to find SRAM cards and which capacities are supported

Yahoo group: hp8924
Date: 2015-04-28 22:26:22 UTC
From: Ralph Mowery
Topic: 2092  Message: 2117

You will probably have to find an older computer,most likely a laptop.  They have a slot called a PCMCIA .  That takes special memory cards that fit in the 8924C slot.  You download the program from the files section in this group.  This can be done on any computer .  YOu then take this file and put it on a computer that has the PCMCIA slot (SRAM card).  This card looks to be about the size of a very thick credit card.  Then put the file on the PCMCIA (SRAM) card and then into the 8924C.
If you need to edit the files such as to get the FMNA program to run on the 8924C, you can use the program called Notepad.  Just open it up, change the files and save it.  Then copy it to the pcmcia card.

From: "clif@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Tuesday, April 28, 2015 12:07 AM
Subject: [hp8924] Re: Where to find SRAM cards and which capacities are supported

<!--#yiv9409785681 #yiv9409785681 .yiv9409785681ygrp-photo-title{clear:both;font-size:smaller;height:15px;overflow:hidden;text-align:center;width:75px;}#yiv9409785681 div.yiv9409785681ygrp-photo{background-position:center;background-repeat:no-repeat;background-color:white;border:1px solid black;height:62px;width:62px;}#yiv9409785681 div.yiv9409785681photo-title a, #yiv9409785681 div.yiv9409785681photo-title a:active, #yiv9409785681 div.yiv9409785681photo-title a:hover, #yiv9409785681 div.yiv9409785681photo-title a:visited {text-decoration:none;}#yiv9409785681 div.yiv9409785681attach-table div.yiv9409785681attach-row {clear:both;}#yiv9409785681 div.yiv9409785681attach-table div.yiv9409785681attach-row div {float:left;}#yiv9409785681 p {clear:both;padding:15px 0 3px 0;overflow:hidden;}#yiv9409785681 div.yiv9409785681ygrp-file {width:30px;}#yiv9409785681 div.yiv9409785681attach-table div.yiv9409785681attach-row div div a {text-decoration:none;}#yiv9409785681 div.yiv9409785681attach-table div.yiv9409785681attach-row div div span {font-weight:normal;}#yiv9409785681 div.yiv9409785681ygrp-file-title {font-weight:bold;}#yiv9409785681 --> <!--#yiv9409785681 #yiv9409785681ygrp-mkp {border:1px solid #d8d8d8;font-family:Arial;margin:10px 0;padding:0 10px;}#yiv9409785681 #yiv9409785681ygrp-mkp hr {border:1px solid #d8d8d8;}#yiv9409785681 #yiv9409785681ygrp-mkp #yiv9409785681hd {color:#628c2a;font-size:85%;font-weight:700;line-height:122%;margin:10px 0;}#yiv9409785681 #yiv9409785681ygrp-mkp #yiv9409785681ads {margin-bottom:10px;}#yiv9409785681 #yiv9409785681ygrp-mkp .yiv9409785681ad {padding:0 0;}#yiv9409785681 #yiv9409785681ygrp-mkp .yiv9409785681ad p {margin:0;}#yiv9409785681 #yiv9409785681ygrp-mkp .yiv9409785681ad a {color:#0000ff;text-decoration:none;}-->

Ok. I follow the going into Ibasic and downloading the program itself. Question is what do I download it to that I can put it on my computer and edit it or save it for future use? And then if I have to use this method to reload the program what am I reloading from.

Computer dummy here.

# 2118. Re: [hp8924] Re: Where to find SRAM cards and which capacities are supported

Yahoo group: hp8924
Date: 2015-04-28 22:28:58 UTC
From: Clif
Topic: 2092  Message: 2118

The 8920/21 doesn't use PCMCIA cards. It uses the Epson cards. Wonder if I could go back and forth using the serial port???? Hmmm

On Tue, Apr 28, 2015 at 5:26 PM, Ralph Mowery ku4pt@... [hp8924] <hp8924@...m> wrote:

>
>
> You will probably have to find an older computer,most likely a laptop.
> They have a slot called a PCMCIA . That takes special memory cards that
> fit in the 8924C slot. You download the program from the files section in
> this group. This can be done on any computer . YOu then take this file
> and put it on a computer that has the PCMCIA slot (SRAM card). This card
> looks to be about the size of a very thick credit card. Then put the file
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>
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> the 8924C, you can use the program called Notepad. Just open it up, change
> the files and save it. Then copy it to the pcmcia card.
>
>
> ----------
> *From:* "clif@... [hp8924]" <hp8924@yahoogroups.com>
> *To:* hp8924@yahoogroups.com
> *Sent: * Tuesday, April 28, 2015 12:07 AM
> *Subject:* [hp8924] Re: Where to find SRAM cards and which capacities are
> supported
>
>
>
> Ok. I follow the going into Ibasic and downloading the program itself.
> Question is what do I download it to that I can put it on my computer and
> edit it or save it for future use? And then if I have to use this method to
> reload the program what am I reloading from.
>
> Computer dummy here.
>
>
>
>

--
Clif Holland KA5IPF
www.avvid.com

# 2119. Re: [hp8924] Re: Where to find SRAM cards and which capacities are supported

Yahoo group: hp8924
Date: 2015-04-28 23:54:15 UTC
From: Ralph Mowery
Topic: 2092  Message: 2119

Must have missed the model number.  I did use the serial port to load in the program on my 8924c one time.  It took forever to do .  Forgot the baud rate, but think around 19.2 k is about the fastest.
From: "Clif clif@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Tuesday, April 28, 2015 6:28 PM
Subject: Re: [hp8924] Re: Where to find SRAM cards and which capacities are supported

#yiv7388439176 #yiv7388439176 -- #yiv7388439176 .yiv7388439176ygrp-photo-title{clear:both;
font-size:smaller;height:15px;overflow:hidden;text-align:center;width:75px;}#yiv7388439176
div.yiv7388439176ygrp-photo{background-position:center;background-repeat:no-repeat;backgro
und-color:white;border:1px solid black;height:62px;width:62px;}#yiv7388439176
div.yiv7388439176photo-title a, #yiv7388439176 div.yiv7388439176photo-title a:active,
#yiv7388439176 div.yiv7388439176photo-title a:hover, #yiv7388439176
div.yiv7388439176photo-title a:visited {text-decoration:none;}#yiv7388439176
div.yiv7388439176attach-table div.yiv7388439176attach-row {clear:both;}#yiv7388439176
div.yiv7388439176attach-table div.yiv7388439176attach-row div {float:left;}#yiv7388439176
p {clear:both;padding:15px 0 3px 0;overflow:hidden;}#yiv7388439176
div.yiv7388439176ygrp-file {width:30px;}#yiv7388439176 div.yiv7388439176attach-table
div.yiv7388439176attach-row div div a {text-decoration:none;}#yiv7388439176
div.yiv7388439176attach-table div.yiv7388439176attach-row div div span
{font-weight:normal;}#yiv7388439176 div.yiv7388439176ygrp-file-title
{font-weight:bold;}#yiv7388439176 #yiv7388439176 #yiv7388439176 #yiv7388439176
--#yiv7388439176ygrp-mkp {border:1px solid #d8d8d8;font-family:Arial;margin:10px
0;padding:0 10px;}#yiv7388439176 #yiv7388439176ygrp-mkp hr {border:1px solid
#d8d8d8;}#yiv7388439176 #yiv7388439176ygrp-mkp #yiv7388439176hd
{color:#628c2a;font-size:85%;font-weight:700;line-height:122%;margin:10px
0;}#yiv7388439176 #yiv7388439176ygrp-mkp #yiv7388439176ads
{margin-bottom:10px;}#yiv7388439176 #yiv7388439176ygrp-mkp .yiv7388439176ad {padding:0
0;}#yiv7388439176 #yiv7388439176ygrp-mkp .yiv7388439176ad p {margin:0;}#yiv7388439176
#yiv7388439176ygrp-mkp .yiv7388439176ad a
{color:#0000ff;text-decoration:none;}#yiv7388439176

The 8920/21 doesn't use PCMCIA cards. It uses the Epson cards. Wonder if I could go back and forth using the serial port???? Hmmm

# 2120. Re: [hp8924] Re: Where to find SRAM cards and which capacities are supported

Yahoo group: hp8924
Date: 2015-04-29 06:27:54 UTC
From: Robert Atkinson
Topic: 2092  Message: 2120

Your best bet is to use the HPIB port and HPDIR HPDRIVE software. This does need some computer knowledge though, and you will still need a connection to the serial port and terminal emulation software to act as a console for command entry. The other option would be to build a EPSON edge card to DIL adaptor lead and use a PC memory programmer that will will write to CMOS RAM modules. There is no "plug 'n' play" solution that I know of. http://www.hp9845.net/9845/projects/hpdrive/http://www.hp9845.net/9845/projects/hpdir/ Robert G8RPI

# 2121. Re: [hp8924] Re: Where to find SRAM cards and which capacities are supported

Yahoo group: hp8924
Date: 2015-04-29 16:07:25 UTC
From: clif@...
Topic: 2092  Message: 2121

Thanks for the help. I don't have an HPIB setup. I may try the serial port and see what happens. I do have the programming manual (never been opened). The service monitor is a tool to me, as is the software and I was looking for a way to back up the software in case of a malfunction.

It looks like what I want to do is going to require more time to figure out how to do it than I have time to spend on it.

Thanks again for everyone's help in trying to help a non computer type.

# 2122. HP8920A Audio Analyzer 2 assembly

Yahoo group: hp8924
Date: 2015-05-01 02:52:26 UTC
From: Yuri Ostry
Topic: 2122  Message: 2122

Hello,

Does anyone know if there is calibration data upload necessary after A2 assembly replacement?

I just looked to assembly level repair guide, and there is two tables that have different data. Chapter 5 (Calibration) does not mention cal data for A2 at all, while table in Chapter 3 (Repair) state that cal data upload is necessaty (but only for 8920A - ?!).

I just replaced faulty A2 board (the one with variable frequency notch, opt 019) with standard assembly from another unit, and trying to figure out what to do with calibration.

Sincerely,
Yuri mailto:yuri@...

# 2123. WTB 8920/21 Power Supply - dead or alive

Yahoo group: hp8924
Date: 2015-05-05 16:35:53 UTC
From: jyelmgren@...
Topic: 2123  Message: 2123

Looking for an 8920A/B or 8921A power supply dead or alive ....be great to get the plastic on/off actuator and push button as well.

Thanks

Direct email would be better if you have one.

# 2124. Frequency counter and signal generator at the same time, and attenuator question

Yahoo group: hp8924
Date: 2015-05-11 10:34:55 UTC
From: EA5125URE
Topic: 2124  Message: 2124

Hello,

I need to calibrate a receiver and the service manual specifies a procedure that involves connecting a signal generator to a test point and a frequency counter to another, checking the reading at the freq. counter while adjusting a variable capacitor and generating a signal at the same time. I would like to know if I can use my 8924c for this purpose and what procedure I should follow.

The other issue is: I have a 3W input attenuator inside the 8924c, and an external 100w 40db attenuator. I would like to know what's the recommended setup to test devices that output up to 100w with these components. Should I connect the rig output the attenuator, and the attenuator directly to RF In of my 8924c, or I should rather use a dummy load in parallel?

Last but not least, I have to replace the volume control pot and the RF In N-female to SMA female connector in the front panel. The former was broken during delivery and the latter has one of the inside pins missing. I have high quality replacements (new Bourns equivalent part and a quality RF connector). Should I attempt to recalibrate or do anything special before and after reassembling the 8924c? Replacing the pot should not require any recalibration AFAIK, but the RF In connector might be an issue, even if negligible, I guess.

Thank you!
Lorenzo

# 2125. Re: [hp8924] Re: Where to find SRAM cards and which capacities are supported

Yahoo group: hp8924
Date: 2015-05-11 10:52:06 UTC
From: EA5125URE
Topic: 2092  Message: 2125

Ralph,

I just got two 2MB PCMCIA SRAM cards, brand is MELCARD MITSUBISHI.

Model MF82M1-77DB701. I bought them off eBay for circa 19-20 USD each, from a seller in China. Someone else was asking where to buy them cheaply too, not sure if I confused you for that person. These are 32-bit cards AFAIK, EPROM, not SRAM.

I'm looking for the instructions on how to transfer the software to the cards using a laptop with PCMCIA card reader/writer. Also any instructions for fixing the BASIC code to make the software work in the 8924C.

Hopefully I didn't acquire the wrong kind of cards. Per this thread the MELCARDs should work. It seems I won't be able to flash the updated firmware since it requires 4MB cards, but mine is 08.32, which seems more recent than the dump available in the Files section.

Oh, and for those here using Linux systems: it seems the MTD infrastructure fully supports reading these cards. Only catch is you need to write your own program to manipulate them using the MTD block devices. Should be fairly simple to do (and test, just calculate checksum or cryptographic hash with test data, write test data, then read it back, calculate its checksum/hash and verify it matches... if the driver is sane it should be a match).

http://si.org/pcmciamtd/
http://pcmcia-cs.sourceforge.net/ftp/doc/PCMCIA-HOWTO-3.html#ss3.7 (old, pre MTD maybe?)
http://www.linuxquestions.org/questions/linux-laptop-and-netbook-25/reading-a-pcmcia-memory-card-with-an-internal-reader-on-ubuntu-12-04-lts-4175484225/
http://lists.infradead.org/pipermail/linux-mtd/2011-August/037753.html

Cheers,
Lorenzo

On 4/23/2015 11:54 PM, Ralph Mowery ku4pt@... [hp8924] wrote:
>
> You don't really need to know Basic or the special IBasic.
>
> To get the programs to work with some of the different models it needs
> to be eddited. Just use a program like Notepad ot Write to open it.
> It is just line by numbered line. Go the the specific line number
> number and change it. Then save the program.

>
> I forgot about what model you have, but RF Tools worked for me on the
> 8924C but the NA part would not work. Someone posted the changes that
> were needed and after I did that, it worked fine.
>
>
> ---
> *From:* "clif@... [hp8924]" <hp8924@yahoogroups.com>
> *To:* hp8924@yahoogroups.com
> *Sent:* Thursday, April 23, 2015 4:36 PM
> *Subject:* RE: [hp8924] Re: Where to find SRAM cards and which
> capacities are supported
>
>
>
> Ok, I'll download that file and save it. When you start talking about
> going into I-basic you are creeping out of my range. At one time years
> ago I was going to learn basic but other things got in the way. I
> think a lot of it had to do with Windoze. Much too complicated for me.
> DOS I could work with at one time.
>
> I probably need to learn how to save it as I don't think the original
> will last forever, although it has lasted almost 20 years so far.
>
> _._,___
>
>
>

# 2126. Vertical mount/frame for the 8924c

Yahoo group: hp8924
Date: 2015-05-11 10:57:32 UTC
From: EA5125URE
Topic: 2126  Message: 2126

A bit of an off topic, non technical discussion:

Since lab real estate comes at a premium for me, I want to mount the 8924c vertically on a custom piece of furniture with wheels.

I will likely build it so that connectors at the bottom are routed to the sides or upwards, plus include space to attach the video converter box.

I would like to know if anyone here has built something similar, and if positive, any suggestions/tips you might have for me.

Rack mounting is also an option but because of its depth, I don't think it would fit in my rack cabinet.

I'm also considering adding a serial to Ethernet port "converter" or even Bluetooth, since I network most of my equipment for remote operation and comfort.

Cheers
Lorenzo

# 2127. Re: Frequency counter and signal generator at the same time, and attenuator question

Yahoo group: hp8924
Date: 2015-05-11 11:29:13 UTC
From: Robert Atkinson
Topic: 2124  Message: 2127

Hi,Answers in line below:I need to calibrate a receiver and the service manual specifies a procedure that involves connecting a signal generator to a test point and a frequency counter to another, checking the reading at the freq. counter while adjusting a variable capacitor and generating a signal at the same time. I would like to know if I can use my 8924c for this purpose and what procedure I should follow. Yes, Use the main RF in/out connector for the signal generator output and the antenna input (on 8924C) for the counter input. The manual tells you about setting this up, but you are better off reading the 8920B (and A) manuals if you are doing analog radio testing.

The other issue is: I have a 3W input attenuator inside the 8924c, and an external 100w 40db attenuator. I would like to know what's the recommended setup to test devices that output up to 100w with these components. Should I connect the rig output the attenuator, and the attenuator directly to RF In of my 8924c, or I should rather use a dummy load in parallel? NO DUMMY LOAD, Radio output to attenuator input, attenuator output to 8924C RF in/out connector (N type)

Last but not least, I have to replace the volume control pot and the RF In N-female to SMA female connector in the front panel. The former was broken during delivery and the latter has one of the inside pins missing. I have high quality replacements (new Bourns equivalent part and a quality RF connector). Should I attempt to recalibrate or do anything special before and after reassembling the 8924c? Replacing the pot should not require any recalibration AFAIK, but the RF In connector might be an issue, even if negligible, I guess. The correct connector is HP/Agilent/Keysight part No. 1250-1811 about $50 from Keysight. Others won't fit properly. I can supply you a proper HP part (ex new equipment) for €20 plus postage. Calibration should not be an issue with the correct part. Robert G8RPI

# 2128. Re: [hp8924] Re: Where to find SRAM cards and which capacities are supported

Yahoo group: hp8924
Date: 2015-05-11 11:33:07 UTC
From: Robert Atkinson
Topic: 2092  Message: 2128

Hi,Search the group on Yahoo. the information is all there. It's not as easy as it looks as there are many variables. Remember these are not FAT formatted cards and few laptops support programming Flash or EPROM cards properly. Robert G8RPI.

# 2129. Re: [hp8924] Re: Frequency counter and signal generator at the same time, and attenuator question

Yahoo group: hp8924
Date: 2015-05-11 12:00:13 UTC
From: EA5125URE
Topic: 2124  Message: 2129

Robert,

My responses inline as well.

On 5/11/2015 1:29 PM, Robert Atkinson robert8rpi@... [hp8924] wrote:
>
>
> Hi,
> Answers in line below:
> I need to calibrate a receiver and the service manual specifies a
> procedure that involves connecting a signal generator to a test point
> and a frequency counter to another, checking the reading at the freq.
> counter while adjusting a variable capacitor and generating a signal at
> the same time. I would like to know if I can use my 8924c for this
> purpose and what procedure I should follow.
>
> /Yes, Use the main RF in/out connector for the signal generator
> output and the antenna input (on 8924C) for the counter input. The
> manual tells you about setting this up, but you are better off reading
> the 8920B (and A) manuals if you are doing analog radio testing. /

So, simultaneous operation of both things works just fine. Nice.
What section of the manual is involved? Their indexes aren't exactly the
best I have seen.
>
> The other issue is: I have a 3W input attenuator inside the 8924c, and
> an external 100w 40db attenuator. I would like to know what's the
> recommended setup to test devices that output up to 100w with these
> components. Should I connect the rig output the attenuator, and the
> attenuator directly to RF In of my 8924c, or I should rather use a dummy
> load in parallel?
>
> /NO DUMMY LOAD, Radio output to attenuator input, attenuator output to
> 8924C RF in/out connector (N type)/

OK (I meant Radio -> Attenuator -> T adapter to both dummy load and
8924C), but I'm happy to know the attenuator alone suffices.

>
> Last but not least, I have to replace the volume control pot and the RF
> In N-female to SMA female connector in the front panel. The former was
> broken during delivery and the latter has one of the inside pins
> missing. I have high quality replacements (new Bourns equivalent part
> and a quality RF connector). Should I attempt to recalibrate or do
> anything special before and after reassembling the 8924c? Replacing the

> pot should not require any recalibration AFAIK, but the RF In connector
> might be an issue, even if negligible, I guess.
>
> /The correct connector is HP/Agilent/Keysight part No. 1250-1811 about
> $50 from Keysight. Others won't fit properly. I can supply you a
> proper HP part (ex new equipment) for €20 plus postage. Calibration
> should not be an issue with the correct part./

/I appreciate the offer. I already have bulkhead connectors, but just in case, could you tell me the diameter of the bulkhead insertion? I believe they fit the parts I have. I don't have time right now to check carefully. I have a full front panel sent to me by the seller I got the 8924c from, BTW, so even if the new replacements don't fit I still have the exact replacement. Just need to yank it out of the other front panel. I would still appreciate it if you could get measurements, as I am sure other people here would as well.

I will post them myself when I finally get to reassemble my unit if you cannot do so/dont have the time. A quick look indicates that very few bulkheads fit, if the one used in my 8924c has the SMA nut side of smaller diameter, then I can see why most won't pass through the hole.

Cheers,
Lorenzo
/

# 2130. Re: [hp8924] Re: Where to find SRAM cards and which capacities are supported

Yahoo group: hp8924
Date: 2015-05-11 12:13:57 UTC
From: EA5125URE
Topic: 2092  Message: 2130

Robert,

Linux MTD = Memory Technology Device. Raw access to flash/eeprom/whatever is interfaced and supported by each driver. Filesystem access is a completely different abstraction layer far above that of the device handling/IO, I know these are not treated as block devices but linear memory, which is exactly what MTD supports.

For Windows I suppose the only real problem is having driver support. Any hardware PCMCIA bus access/adapter in a laptop should work, since it is a standard. Just like modern ExpressCard is just an external PCIe bus. I found some copies of read/write software in the files section. It would be nice if people chimed in with their experiences/suggestions as to which software worked best for them, from the options available in the Files area.

Just wanted to clarify that properly. People might be confused by your statement into thinking they need a special,nondescript laptop or some such. So as long as it has a standard PCMCIA/cardbus adapter, and the operating system has the right drivers, it's pretty straightforward.

Hope that helps.

Cheers,
Lorenzo

On 5/11/2015 1:33 PM, Robert Atkinson robert8rpi@... [hp8924] wrote:
>
> Hi,
> Search the group on Yahoo. the information is all there. It's not as
> easy as it looks as there are many variables. Remember these are not
> FAT formatted cards and few laptops support programming Flash or EPROM
> cards properly.
>
> Robert G8RPI.
>

# 2131. Re: [hp8924] Re: Where to find SRAM cards and which capacities are supported

Yahoo group: hp8924
Date: 2015-05-11 12:40:37 UTC
From: EA5125URE
Topic: 2092  Message: 2131

Oh, I forgot:
http://cds.linear.com/docs/en/design-note/dn93f.pdf

As you describe here:
https://groups.yahoo.com/neo/groups/hp8924/conversations/messages/1068

The programming voltage is switchable. Again, this is a driver/software issue. Which might be the more or less problematic area for Windows users.

If I end up using Linux for writing to the cards I will send an update here when I have a chance/time permits.

Reading your previous posts I noticed the idea of building an emulator. That would be pretty great, but definitely an overkill project.
It seems doable to emulate SRAM/EPROM cards without much expense. Could probably do with a MSP430? Who knows.

People out there are writing emulated USB devices in interpreted languages running *on* the MSP430, so it's definitely possible/realistic.

Cheers!

On 5/11/2015 2:13 PM, EA5125URE ea5125ure@... [hp8924] wrote:
>
>
> Robert,
>
> Linux MTD = Memory Technology Device. Raw access to
> flash/eeprom/whatever is interfaced and supported by each driver.
> Filesystem access is a completely different abstraction layer far
> above that of the device handling/IO, I know these are not treated as
> block devices but linear memory, which is exactly what MTD supports.
>
> For Windows I suppose the only real problem is having driver support.
> Any hardware PCMCIA bus access/adapter in a laptop should work, since
> it is a standard. Just like modern ExpressCard is just an external
> PCIe bus.
> I found some copies of read/write software in the files section. It
> would be nice if people chimed in with their experiences/suggestions
> as to which software worked best for them, from the options available
> in the Files area.
>
> Just wanted to clarify that properly. People might be confused by your
> statement into thinking they need a special,nondescript laptop or some
> such. So as long as it has a standard PCMCIA/cardbus adapter, and the

> operating system has the right drivers, it's pretty straightforward.
>
> Hope that helps.
>
> Cheers,
> Lorenzo
>
> On 5/11/2015 1:33 PM, Robert Atkinson robert8rpi@... [hp8924]
> wrote:
>>
>> Hi,
>> Search the group on Yahoo. the information is all there. It's not as
>> easy as it looks as there are many variables. Remember these are not
>> FAT formatted cards and few laptops support programming Flash or
>> EPROM cards properly.
>>
>> Robert G8RPI.
>
>

# 2132. Re: [hp8924] Vertical mount/frame for the 8924c

Yahoo group: hp8924
Date: 2015-05-11 12:59:20 UTC
From: EA5125URE
Topic: 2126  Message: 2132

Hola Angelo,

That's pretty neat. Thank you for the photos. I was thinking of
something a bit smaller, built with hardwood planks or MDF and aluminum
profiles.
Have you noticed any issues with the plastic legs? They seem to be the
most vulnerable part.

Stability might be an issue in my case, wheels being tucked too close
together. We'll see, since I won't be moving it much.

Cheers,
Lorenzo

On 5/11/2015 2:37 PM, Angelo Graziani wrote:
> Hi Lorenzo,
> for HP8920a have a Tektronic K212 kart, but for the heavy HP8922
> I have made an instruments trolley with 8922 vertically mounted.
> Trolley is built using pipe,joints, and wood from a big d.i.y. shop.
> At the beginnig was afraid because of cooling of 8922 in vertical was
> in doubt,
> but years of work tells that not souffer.
> Look at photo in attachment, that speak well.
> If you neeed photo of detalis, plese ask me directly etere.it@...
> <mailto:etere.it@...>
>
> Ciao,
> Angelo
> iK0-IBI
>
>
>
> ----- Original Message -----
> *From:* EA5125URE ea5125ure@... [hp8924]
> <mailto:ea5125ure@...%20[hp8924]>
> *To:* hp8924@yahoogroups.com <mailto:hp8924@yahoogroups.com>
> *Sent:* Monday, May 11, 2015 12:57 PM
> *Subject:* [hp8924] Vertical mount/frame for the 8924c
>
>
>
> A bit of an off topic, non technical discussion:
>
> Since lab real estate comes at a premium for me, I want to mount the
> 8924c vertically on a custom piece of furniture with wheels.
>

> I will likely build it so that connectors at the bottom are routed to
> the sides or upwards, plus include space to attach the video
> converter box.
>
> I would like to know if anyone here has built something similar,
> and if
> positive, any suggestions/tips you might have for me.
>
> Rack mounting is also an option but because of its depth, I don't
> think
> it would fit in my rack cabinet.
>
> I'm also considering adding a serial to Ethernet port "converter" or
> even Bluetooth, since I network most of my equipment for remote
> operation and comfort.
>
> Cheers
> Lorenzo
>
>
>

# 2133. Re: [hp8924] Re: Where to find SRAM cards and which capacities are supported

Yahoo group: hp8924
Date: 2015-05-11 16:01:41 UTC
From: Robert Atkinson
Topic: 2092 Message: 2133

Hi,Not strictly true. Most laptops do not fully implement the PCMCIA specification in respect of 12V power. Many of the linear Flash and most of the EPROM memory cards need 12V for programming (some have a step up converter built in). I have tried several laptops of various makes and models and only found a couple (a very small Sharp, and a very expensive ruggedised model) that would program all cards. While trying to find a solution to this a couple of years ago, I had difficulties due to card type, laptop compatability and software. If any one was wrong, it just did not work.
I use the Elan Memory Card Explorer software, but Elan have gone out of business.

Robert G8RPI.

# 2134. Re: [hp8924] Re: Frequency counter and signal generator at the same time, and attenuator question

Yahoo group: hp8924
Date: 2015-05-11 16:42:46 UTC
From: Robert Atkinson
Topic: 2124  Message: 2134

1250-1811 N to SM. , Female to Female Panel mount connector DimensionsThreaded part that goes through panel is 12.5mm (1/2") diameter with two flats. distance across flats is 11mm, Length of threaded section 9.2mm. Securing nut is 16mm A/F. Distance (length) from panel mounting flange to end of SMA is 15.8mm. Diameter of mounting flange 18mm. Overall length Nt to SMA 31.75mm connector is fitted with a bellville washer and the nut is qute highly loaded. You need to use a 16mm (5/8") socket to remove it without damaging the nut. I strongly recomment you use the HP connector from the spare panel if it is in good condition.

Hope this helps.

# 2135. Re: [hp8924] Re: Frequency counter and signal generator at the same time, and attenuator question

Yahoo group: hp8924
Date: 2015-05-11 17:04:24 UTC
From: EA5125URE
Topic: 2124  Message: 2135

Robert,

Thanks for the detailed response. To be honest I'm always rather cynical about requesting "free information" in the ham radio community when it comes to parts/etc, since there is a tendency to prioritize business above all else these days.

These are the measurements of the bulkheads I have:

Outer diameter of the threaded/insertion part: 15.77mm
Outer diameter of flat section before thread: 14.00mm
Outer diameter of the Type-N female outer connector base (flat surface, right before the rubber grommet): 20.01mm
Midsegment: 15.92-16mm
Type-N female thread part: 14.05mm
Overall length: 41mm
Inside length: (from base to SMA female tip): 20.5-20.4mm

I agree I might be better off using the part from the replacement front assembly. These non official bulkheads might fit but I can't say without checking the amount of clearance behind. 2-3mm for thread diameter difference isn't horrible if you can't get originals, but I will send an update when I get to reassembling the rig and finally check if they are useless.

Seems 29-32 USD is the usual price for the parts. This TaoBao seller from China asks for 32....
http://item.taobao.com/item.htm?spm=a1z10.1-c.w4004-254314194.22.F5Le8m&id=18467006558

Cheers,
Lorenzo

On 5/11/2015 6:42 PM, Robert Atkinson robert8rpi@... [hp8924] wrote:
>
> 1250-1811 N to SM. , Female to Female Panel mount connector Dimensions
> Threaded part that goes through panel is 12.5mm (1/2") diameter with
> two flats. distance across flats is 11mm, Length of threaded section
> 9.2mm. Securing nut is 16mm A/F. Distance (length) from panel mounting
> flange to end of SMA is 15.8mm. Diameter of mounting flange 18mm.
> Overall length Nt to SMA 31.75mm connector is fitted with a bellville
> washer and the nut is qute highly loaded. You need to use a 16mm
> (5/8") socket to remove it without damaging the nut. I strongly
> recomment you use the HP connector from the spare panel if it is in
> good condition.
>

> Hope this helps.
>
>

# 2136. Re: [hp8924] Re: Where to find SRAM cards and which capacities are supported

Yahoo group: hp8924
Date: 2015-05-11 17:06:28 UTC
From: EA5125URE
Topic: 2092  Message: 2136

Robert,

BTW definitely confirmed the issue with PCMCIA cards is mostly drivers.
In many cases the chipset drivers wont be available for XP.

I'm about to test with Ubuntu/Linux and MTD access. I'm expecting better
results there. Unfortunately that also means no supporting software
ready for use.

Are the cards expected to be zeroed? Or do they have some basic format?

Using a VAIO portable workstation I had in storage.

Cheers,
Lorenzo

On 5/11/2015 6:01 PM, Robert Atkinson robert8rpi@... [hp8924] wrote:
>
> Hi,
> Not strictly true. Most laptops do not fully implement the PCMCIA
> specification in respect of 12V power. Many of the linear Flash and
> most of the EPROM memory cards need 12V for programming (some have a
> step up converter built in). I have tried several laptops of various
> makes and models and only found a couple (a very small Sharp, and a
> very expensive ruggedised model) that would program all cards. While
> trying to find a solution to this a couple of years ago, I had
> difficulties due to card type, laptop compatability and software. If
> any one was wrong, it just did not work.
> I use the Elan Memory Card Explorer software, but Elan have gone out
> of business.
>
> Robert G8RPI.
>

# 2137. Re: [hp8924] Re: Where to find SRAM cards and which capacities are supported

Yahoo group: hp8924
Date: 2015-05-11 18:03:18 UTC
From: Robert Atkinson
Topic: 2092  Message: 2137

Hi,If you are using the binary images from the group files section, the cards should be erased, no format (all FF). If you have the actual iBasic programs you will need to format the cards as LIF.
Most of the laptops I tried did have the proper chipset drivers, they just didn't fit the hardware to supply 12V. The ELAN software is pretty good. Presumably becase so few cards need it. I have found some linear Flash cards that don't need it, but unless you have the full datasheet for the exact card, it's hard to tell. There are many minor variations of these cards, some such as configuration memory were used to implement data protecton so there is little data out there.
G8RPI.

# 2138. Re: [hp8924] Re: Where to find SRAM cards and which capacities are supported

Yahoo group: hp8924
Date: 2015-05-11 18:24:48 UTC
From: EA5125URE
Topic: 2092  Message: 2138

Robert,

I'm testing these:
http://www.ebay.com/itm/MITSUBISHI-MELCARD-2MB-F-EEPROM-CARD-MF82M1-77DAT01-/171165979161?pt=LH_DefaultDomain_0&hash=item27da499219

Until I get to plug them into the rig, I see no luck, yet.

One potential hack would be to use serial IO to the 8924c and write the
data byte to byte if this is supported at all by the API.
I'm about to test on Linux and move on to other work today...

Found these as well:
http://www.ebay.com/itm/SRAM-PCMCIA-512KB-512KBYTE-PC-CARD-WITH-BATTERY-CSCJ-512K-SM-462-/300869038069?pt=LH_DefaultDomain_0&hash=item460d312ff5

Maybe we should put a list up of known working models.

Cheers!

On 5/11/2015 8:03 PM, Robert Atkinson robert8rpi@... [hp8924] wrote:
>
> Hi,
> If you are using the binary images from the group files section, the
> cards should be erased, no format (all FF). If you have the actual
> iBasic programs you will need to format the cards as LIF.
> Most of the laptops I tried did have the proper chipset drivers, they
> just didn't fit the hardware to supply 12V. The ELAN software is
> pretty good. Presumably becase so few cards need it. I have found some
> linear Flash cards that don't need it, but unless you have the full
> datasheet for the exact card, it's hard to tell. There are many minor
> variations of these cards, some such as configuration memory were used
> to implement data protecton so there is little data out there.
>
> G8RPI.
>
>

# 2139. Re: [hp8924] Re: Where to find SRAM cards and which capacities are supported

Yahoo group: hp8924
Date: 2015-05-11 18:35:13 UTC
From: Robert Atkinson
Topic: 2092  Message: 2139

Hi,The 8924C (or any 892x) can't write to Flash or (E)EPROM cards,only read them. It's not supported in hardware (on 12V) or the system. They can read or write SRAM cards.The MELCARD SRAM work OK, at least all I've seen do. Yuo need SRAM so save programs or instrument set ups.
The progam cards from HP were mostly OTP ROM.
Robert.

# 2140. Re: Any interest in USB PCMCIA Flash adapter or LCD Conversion for the 8935 others?

Yahoo group: hp8924
Date: 2015-05-11 22:23:13 UTC
From: ea5125ure@...
Topic: 892  Message: 2140

kj4wlc,

Did you ever get to finish the USB interface? I would be happy to help with whatever I can.

Cheers

# 2141. Re: [hp8924] Frequency counter and signal generator at the same time, and attenuator question

Yahoo group: hp8924
Date: 2015-05-12 17:14:19 UTC
From: Ralph Mowery
Topic: 2124  Message: 2141

I am sure you have found the answer by now.  If not.
You generate the signal and counter by using the duplex button.  Set the input to the antenna port and output to either the RF or Duplex port.  You read the counter off the screen and adjust the frequency generator from the screen.  If you have any of the manuals , just treat it as a repeater setup.
You do not need a dummy load after the atteunator.  The RF in is terminated by the internal 3 watt atteunator.

From: "EA5125URE ea5125ure@yahoo.com [hp8924]" <hp8924@yahoogroups.com>
To: [hp8924] <hp8924@yahoogroups.com>
Sent: Monday, May 11, 2015 6:34 AM
Subject: [hp8924] Frequency counter and signal generator at the same time, and attenuator question

Hello,

I need to calibrate a receiver and the service manual specifies a procedure that involves connecting a signal generator to a test point and a frequency counter to another, checking the reading at the freq. counter while adjusting a variable capacitor and generating a signal at the same time. I would like to know if I can use my 8924c for this purpose and what procedure I should follow.

The other issue is: I have a 3W input attenuator inside the 8924c, and an external 100w 40db attenuator. I would like to know what's the recommended setup to test devices that output up to 100w with these components. Should I connect the rig output the attenuator, and the attenuator directly to RF In of my 8924c, or I should rather use a dummy load in parallel?

Last but not least, I have to replace the volume control pot and the RF In N-female to SMA female connector in the front panel. The former was broken during delivery and the latter has one of the inside pins missing. I have high quality replacements (new Bourns equivalent part and a quality RF connector). Should I attempt to recalibrate or do anything special before and after reassembling the 8924c? Replacing the pot should not require any recalibration AFAIK, but the RF In connector might be an issue, even if negligible, I guess.

Thank you!
Lorenzo

# 2142. HP 8920 or 21

Yahoo group: hp8924
Date: 2015-05-15 17:31:47 UTC
From: Ralph S. Turk
Topic: 2142  Message: 2142

Looking for a factory front cover for the HP 8920 or HP 8921.

Please reply off line if you have one to sell.

Thanks
Ralph

w7hsg at comcast dot net

# 2143. Mesh-covered rubber or foam gasket (like a foam core grounding or shielding strap) from front assembly?

Yahoo group: hp8924
Date: 2015-05-16 18:57:07 UTC
From: EA5125URE
Topic: 2143  Message: 2143

Hello,

I have finished fixing the problems my 8924c had with the volume pot and the RF In coax connector (I will send photos and an update later but good news is, the bulkheads I found fit perfectly, although I used an original part from the spare front assembly I have received).

However, I found a mesh covered/shielded piece of rubber or foam gasket, very short, which might have fallen off one of the front assemblies. I cannot find a reference in the assembly repair manual to it. It is just a gasket, a rubber cored metal strap. I suppose it is used for improved grounding or EMI shielding somewhere, so it bothers me I did not notice it before. Needless to say, my "good" front assembly was not pulled apart, I only removed the nuts and bolts for the front BNC ports, and the four screws for the monitor assembly, after carefully unscrewing the RF In bus jumper that goes to the attenuator unit.

If someone could chime in and solve the uncomfortable mystery it will be greatly appreciated!

Thanks!
Lorenzo

# 2144. Re: [hp8924] Mesh-covered rubber or foam gasket (like a foam core grounding or shielding strap) from front assembly?

Yahoo group: hp8924
Date: 2015-05-16 19:04:06 UTC
From: EA5125URE
Topic: 2143  Message: 2144
Attachments: 1 described; binary payloads are missing from this source WARC

I have attached a photo of the mystery item.

On 5/16/2015 8:57 PM, EA5125URE ea5125ure@... [hp8924] wrote:
>
>
> Hello,
>
> I have finished fixing the problems my 8924c had with the volume pot and
> the RF In coax connector (I will send photos and an update later but
> good news is, the bulkheads I found fit perfectly, although I used an
> original part from the spare front assembly I have received).
>
> However, I found a mesh covered/shielded piece of rubber or foam gasket,
> very short, which might have fallen off one of the front assemblies. I
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> a gasket, a rubber cored metal strap. I suppose it is used for improved
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> it before. Needless to say, my "good" front assembly was not pulled
> apart, I only removed the nuts and bolts for the front BNC ports, and
> the four screws for the monitor assembly, after carefully unscrewing the
> RF In bus jumper that goes to the attenuator unit.
>
> If someone could chime in and solve the uncomfortable mystery it will be
> greatly appreciated!
>
> Thanks!
> Lorenzo
>
>

# 2145. Re: [hp8924] Mesh-covered rubber or foam gasket (like a foam core grounding or shielding strap) from front assembly? [1 Attachment]

Yahoo group: hp8924
Date: 2015-05-16 20:37:14 UTC
From: EA5125URE
Topic: 2143  Message: 2145

Sorry for the multiple update:

It seems this could be MP57 RFI ROUND STRIP P/N 8160-0551.

I don't see it *ANYWHERE* in the assembly photos. It is never mentioned outside the parts list.

Where does this part go?

On 5/16/2015 9:04 PM, EA5125URE ea5125ure@... [hp8924] wrote:
>
> [Attachment(s) <#TopText> from EA5125URE included below]
>
> I have attached a photo of the mystery item.
>
> On 5/16/2015 8:57 PM, EA5125URE ea5125ure@... [hp8924] wrote:
> >
> >
> > Hello,
> >
> > I have finished fixing the problems my 8924c had with the volume pot and
> > the RF In coax connector (I will send photos and an update later but
> > good news is, the bulkheads I found fit perfectly, although I used an
> > original part from the spare front assembly I have received).
> >
> > However, I found a mesh covered/shielded piece of rubber or foam gasket,
> > very short, which might have fallen off one of the front assemblies. I
> > cannot find a reference in the assembly repair manual to it. It is just
> > a gasket, a rubber cored metal strap. I suppose it is used for improved
> > grounding or EMI shielding somewhere, so it bothers me I did not notice
> > it before. Needless to say, my "good" front assembly was not pulled
> > apart, I only removed the nuts and bolts for the front BNC ports, and
> > the four screws for the monitor assembly, after carefully unscrewing the
> > RF In bus jumper that goes to the attenuator unit.
> >
> > If someone could chime in and solve the uncomfortable mystery it will be
> > greatly appreciated!
> >
> > Thanks!
> > Lorenzo
> >
> >
>
>

# 2146. Re: HP 8920 or 21

Yahoo group: hp8924
Date: 2015-05-16 20:53:21 UTC
From: jyelmgren@...
Topic: 2142  Message: 2146

I am sure you know the 859X covers will work and are more plentiful if you do not mind the label being incorrect

# 2147. Re: [hp8924] Re: HP 8920 or 21

Yahoo group: hp8924
Date: 2015-05-16 21:00:33 UTC
From: Ralph S. Turk
Topic: 2142  Message: 2147

I am not sure what a 859X cover is.
Ralph

----- Original Message -----

From: "jyelmgren@... [hp8924]" <hp8924@yahoogroups.com>
To: "hp8924" <hp8924@yahoogroups.com>
Sent: Saturday, May 16, 2015 1:53:21 PM
Subject: [hp8924] Re: HP 8920 or 21

I am sure you know the 859X covers will work and are more plentiful if you do not mind the label being incorrect

# 2148. Re: [hp8924] Re: HP 8920 or 21

Yahoo group: hp8924
Date: 2015-05-16 21:21:52 UTC
From: Yuri Ostry
Topic: 2142  Message: 2148

Re: [hp8924] Re: HP 8920 or 21 Hello,

?I am sure you know the 859X covers will work and are more plentiful if you do not mind the label being incorrect

By the way, does it have accessories compartment like original 8920 cover? The only cover I seen was from some telecom analyzer and had "shallow" profile w/o accessory box.

I'm looking for cover for my 8920 as well, so...

--
Best regards,
Yuri ? ? ? ? ? ? ? ? ? ? ? ? ?;mailto:yuri@...

# 2149. Re: [hp8924] Mesh-covered rubber or foam gasket (like a foam core grounding or shielding strap) from front assembly?

Yahoo group: hp8924
Date: 2015-05-16 21:28:38 UTC
From: Yuri Ostry
Topic: 2143  Message: 2149

Re: [hp8924] Mesh-covered rubber or foam gasket (like a foam core grounding or shielding strap) from front assembly? Hello,

Saturday, May 16, 2015, 23:37:14, EA5125URE wrote:

?
Sorry for the multiple update:

It seems this could be MP57 RFI ROUND STRIP P/N 8160-0551.

I don't see it *ANYWHERE* in the assembly photos. It is never mentioned
outside the parts list.

Where does this part go?

I think it is from groove that is on the back side of front panel. Should provide
electrical connection between outer case and front panel.

--
Best regards,
Yuri ? ? ? ? ? ? ? ? ? ? ? ? ?mailto:yuri@ostry.ru

# 2150. Re: [hp8924] Mesh-covered rubber or foam gasket (like a foam core grounding or shielding strap) from front assembly?

Yahoo group: hp8924
Date: 2015-05-16 21:35:28 UTC
From: EA5125URE
Topic: 2143  Message: 2150

Hey Yuri,

Where do you mean exactly? This seems to be MP57 definitely. Not shown in any drawings... it is a RFI shielding gasket, so wherever they decided to put it, it was meant to prevent stray RF from interferring. That's why I am worried. I did not pull it out myself, it fell, either when I was disassembling the replacement front assembly to pick my parts, or when I took the full CRT assembly from my working unit so I could change the RF In N-female connector. But then I don't know how it was "fit" there. There is no groove around the CRT cage. or between the cage and the front panel.

I really hope someone chimes in with more details, since I need to assemble this thing tonight.

On 5/16/2015 11:28 PM, Yuri Ostry yuri@... [hp8924] wrote:
>
>
> Hello,
>
> Saturday, May 16, 2015, 23:37:14, EA5125URE wrote:
>
>
>
> Sorry for the multiple update:
>
> It seems this could be MP57 RFI ROUND STRIP P/N 8160-0551.
>
> I don't see it *ANYWHERE* in the assembly photos. It is never mentioned
> outside the parts list.
>
> Where does this part go?
>
>
>
> I think it is from groove that is on the back side of front panel.
> Should provide electrical connection between outer case and front panel.
>
>
>
>
> /--
> Best regards,
> Yuri /mailto:yuri@...

>
>

# 2151. Re: [hp8924] Mesh-covered rubber or foam gasket (like a foam core grounding or shielding strap) from front assembly?

Yahoo group: hp8924
Date: 2015-05-16 21:47:08 UTC
From: Yuri Ostry
Topic: 2143 Message: 2151

Re: [hp8924] Mesh-covered rubber or foam gasket (like a foam core grounding or shielding strap) from front assembly? Hello,

Sunday, May 17, 2015, 0:35:28, you wrote:

?
Hey Yuri,

Where do you mean exactly? This seems to be MP57 definitely. Not shown in any drawings... it is a RFI shielding gasket, so wherever they decided to put it, it was meant to prevent stray RF from interferring. That's why I am worried. I did not pull it out myself, it fell, either when I was disassembling the replacement front assembly to pick my parts, or when I took the full CRT assembly from my working unit so I could change the RF In N-female connector. But then I don't know how it was "fit" there. There is no groove around the CRT cage. or between the cage and the front panel.

I seen similar thing in my 8920 in a groove that is around the back side of front panel frame, where the front end of outer case mate with front panel. Also, something similar (but thinner and shorter) was in grooves under the covers of RF-tight boxes that housed RF portion of TDMA adapter that I used for parts in the past. Maybe input assembly may have such thing under the cover, cannot remember right now.

--
Best regards,
Yuri ? ? ? ? ? ? ? ? ? ? ? ? ?mailto:yuri@...

# 2152. RE: [hp8924] Mesh-covered rubber or foam gasket (like a foam core grounding or shielding strap) from front assembly?

Yahoo group: hp8924
Date: 2015-05-16 21:49:11 UTC
From: KA9QJG
Topic: 2143  Message: 2152

I do not have mine anymore and To old and cannot see that good to take it a part if I did
Be careful old ages is catching

If You get a Chance Check with Rick at

http://www.amtronix.com/

He has always been a Great help to me before and after the sale Problem is I a pretty sure
He is at the Dayton Hamfest

73 De Don KA9QJG

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com]
Sent: Saturday, May 16, 2015 4:35 PM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Mesh-covered rubber or foam gasket (like a foam core grounding or shielding strap) from front assembly?

Hey Yuri,

Where do you mean exactly? This seems to be MP57 definitely. Not shown
in any drawings... it is a RFI shielding gasket, so wherever they
decided to put it, it was meant to prevent stray RF from interferring.
That's why I am worried. I did not pull it out myself, it fell, either
when I was disassembling the replacement front assembly to pick my
parts, or when I took the full CRT assembly from my working unit so I
could change the RF In N-female connector. But then I don't know how it
was "fit" there. There is no groove around the CRT cage. or between the
cage and the front panel.

I really hope someone chimes in with more details, since I need to
assemble this thing tonight.

On 5/16/2015 11:28 PM, Yuri Ostry yuri@ostry.ru [hp8924] wrote:
>
>
> Hello,
>
> Saturday, May 16, 2015, 23:37:14, EA5125URE wrote:
>
>
>
> Sorry for the multiple update:
>
> It seems this could be MP57 RFI ROUND STRIP P/N 8160-0551.
>

> I don't see it *ANYWHERE* in the assembly photos. It is never mentioned
> outside the parts list.
>
> Where does this part go?
>
>
>
> I think it is from groove that is on the back side of front panel.
> Should provide electrical connection between outer case and front panel.
>
>
>
>
> /--
> Best regards,
> Yuri /mailto:yuri@ostry.ru
>
>

# 2153. Re: [hp8924] Mesh-covered rubber or foam gasket (like a foam core grounding or shielding strap) from front assembly?

Yahoo group: hp8924
Date: 2015-05-16 22:02:22 UTC
From: EA5125URE
Topic: 2143  Message: 2153

Hm.

Yuri, mine has a "finger" strap, one of those with series of triangle-shaped spring tabs, on one side. The other is bare. The front assembly I got for parts has none of that. It could come from there. I did not disassemble the RF In block in my good unit, I just pulled out the whole CRT + RF block together. You only need to remove the two BNC nuts and the front torx screws (4 of them under display bezel), plus RF In solid wire/bus jumper from RF In N-SMA Female connector to the attenuator input.

This one is round, fairly thin and 43-44cm long. Rubber core, metal shielding. Just a normal EMI gasket.

I will mail Rick, but in my personal experience repair shops dont offer advice for free. They would rather have people send their equipment in for repairs. Ditto for everything else. When I asked him last time about the actual location and replacement parts for the volume and squelch potentiometers, he did not reply. I'm not saying this negatively, he is not obligated in any way to help. But help is what I'm looking for, not a commercial service (mostly because I already have the parts). If we forget that, at some point support will die for these units.

I will try reaching out to him, though.

On 5/16/2015 11:47 PM, Yuri Ostry yuri@... [hp8924] wrote:
>
>
> Hello,
>
> Sunday, May 17, 2015, 0:35:28, you wrote:
>
>
>
> Hey Yuri,
>
> Where do you mean exactly? This seems to be MP57 definitely. Not shown
> in any drawings... it is a RFI shielding gasket, so wherever they
> decided to put it, it was meant to prevent stray RF from interferring.
> That's why I am worried. I did not pull it out myself, it fell, either
> when I was disassembling the replacement front assembly to pick my
> parts, or when I took the full CRT assembly from my working unit so I
> could change the RF In N-female connector. But then I don't know how it
> was "fit" there. There is no groove around the CRT cage. or between the
> cage and the front panel.

>
>
>
> I seen similar thing in my 8920 in a groove that is around the back
> side of front panel frame, where the front end of outer case mate with
> front panel. Also, something similar (but thinner and shorter) was in
> grooves under the covers of RF-tight boxes that housed RF portion of
> TDMA adapter that I used for parts in the past. Maybe input assembly
> may have such thing under the cover, cannot remember right now.
>
>
> /--
> Best regards,
> Yuri /mailto:yuri@...
>
>

# 2154. Re: [hp8924] Mesh-covered rubber or foam gasket (like a foam core grounding or shielding strap) from front assembly?

Yahoo group: hp8924
Date: 2015-05-16 22:06:46 UTC
From: EA5125URE
Topic: 2143  Message: 2154

I just sent an email to Rick. Hopefully he is willing to comment. I did not acquire the unit from him, and I'm overseas right now.

On 5/16/2015 11:49 PM, 'KA9QJG' KA9QJG@... [hp8924] wrote:
>
>
> I do not have mine anymore and To old and cannot see that good to
> take it a part if I did Be careful old ages is catching
>
>
>
> If You get a Chance Check with Rick at
>
>
>
> http://www.amtronix.com/
>
>
>
> He has always been a Great help to me before and after the sale
> Problem is I a pretty sure He is at the Dayton Hamfest
>
>
>
> 73 De Don KA9QJG
>
>
>
>
>
> *From:*hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com]
> *Sent:* Saturday, May 16, 2015 4:35 PM
> *To:* hp8924@yahoogroups.com
> *Subject:* Re: [hp8924] Mesh-covered rubber or foam gasket (like a
> foam core grounding or shielding strap) from front assembly?
>
>
>
>
>
> Hey Yuri,
>
> Where do you mean exactly? This seems to be MP57 definitely. Not shown
> in any drawings... it is a RFI shielding gasket, so wherever they

> decided to put it, it was meant to prevent stray RF from interferring.
> That's why I am worried. I did not pull it out myself, it fell, either
> when I was disassembling the replacement front assembly to pick my
> parts, or when I took the full CRT assembly from my working unit so I
> could change the RF In N-female connector. But then I don't know how it
> was "fit" there. There is no groove around the CRT cage. or between the
> cage and the front panel.
>
> I really hope someone chimes in with more details, since I need to
> assemble this thing tonight.
>
> On 5/16/2015 11:28 PM, Yuri Ostry yuri@... <mailto:yuri@...>
> [hp8924] wrote:
> >
> >
> > Hello,
> >
> > Saturday, May 16, 2015, 23:37:14, EA5125URE wrote:
> >
> >
> >
> > Sorry for the multiple update:
> >
> > It seems this could be MP57 RFI ROUND STRIP P/N 8160-0551.
> >
> > I don't see it *ANYWHERE* in the assembly photos. It is never mentioned
> > outside the parts list.
> >
> > Where does this part go?
> >
> >
> >
> > I think it is from groove that is on the back side of front panel.
> > Should provide electrical connection between outer case and front panel.
> >
> >
> >
> >
> > /--
> > Best regards,
> > Yuri /mailto:yuri@...
> >
> >
>
>

# 2155. Re: [hp8924] Re: HP 8920 or 21

Yahoo group: hp8924
Date: 2015-05-16 22:35:00 UTC
From: vk2kcm@...
Topic: 2142  Message: 2155

My 8921A has the accessories compartment on the front cover.

It looks like the one shown in this picture

https://www.google.com.au/search?q=hp8921&espv=2&biw=1745&bih=855&source=lnms&tbm=isch&sa=X&ei=fMRXVbu5O-XvmAXBnYGQAg&ved=0CAcQ_AUoAg#imgrc=_jPtE-9QV-aqlM%253A%3BbZmRx7VaUpwamM%3Bhttp%253A%252F%252Fmlb-s1-p.mlstatic.com%252Fmonitor-service-hp8921a-analisador-de-espectro-250khz-a-1ghz-583001-MLB20262048271_032015-F.jpg%3Bhttp%253A%252F%252Fproduto.mercadolivre.com.br%252FMLB-637345502-monitor-service-hp8921a-analisador-de-espectro-250khz-a-1ghz-_JM%3B1200%3B900 https://www.google.com.au/search?q=hp8921&espv=2&biw=1745&bih=855&source=lnms&tbm=isch&sa=X&ei=fMRXVbu5O-XvmAXBnYGQAg&ved=0CAcQ_AUoAg#imgrc=_jPtE-9QV-aqlM%253A%3BbZmRx7VaUpwamM%3Bhttp%253A%252F%252Fmlb-s1-p.mlstatic.com%252Fmonitor-service-hp8921a-analisador-de-espectro-250khz-a-1ghz-583001-MLB20262048271_032015-F.jpg%3Bhttp%253A%252F%252Fproduto.mercadolivre.com.br%252FMLB-637345502-monitor-service-hp8921a-analisador-de-espectro-250khz-a-1ghz-_JM%3B1200%3B900

# 2156. Re: [hp8924] Re: HP 8920 or 21

Yahoo group: hp8924
Date: 2015-05-16 23:55:47 UTC
From: Ralph S. Turk
Topic: 2142  Message: 2156

Hi Yuri
The one I have has the compartment. That is what I would like but I will settle for anything to \
protect the front during travel.
73 Ralph

----- Original Message -----

From: "Yuri Ostry yuri@... [hp8924]" <hp8924@yahoogroups.com>
To: "jyelmgren@... [hp8924]" <hp8924@yahoogroups.com>
Sent: Saturday, May 16, 2015 2:21:52 PM
Subject: Re: [hp8924] Re: HP 8920 or 21

Hello,

I am sure you know the 859X covers will work and are more plentiful if you do not mind the label being incorrect

By the way, does it have accessories compartment like original 8920 cover? The only cover I seen was from some telecom analyzer and had "shallow" profile w/o accessory box.

I'm looking for cover for my 8920 as well, so...

--
Best regards,
Yuri mailto:yuri@...

# 2157. Re: [hp8924] Re: HP 8920 or 21

Yahoo group: hp8924
Date: 2015-05-16 23:57:54 UTC
From: Ralph S. Turk
Topic: 2142  Message: 2157

That is one I am looking for but so far no luck
73 Ralph

----- Original Message -----

From: "vk2kcm@... [hp8924]" <hp8924@yahoogroups.com>
To: "hp8924" <hp8924@yahoogroups.com>
Sent: Saturday, May 16, 2015 3:35:00 PM
Subject: Re: [hp8924] Re: HP 8920 or 21

My 8921A has the accessories compartment on the front cover.

It looks like the one shown in this picture

https://www.google.com.au/search?q=hp8921&espv=2&biw=1745&bih=855&source=lnms&tbm=isch&sa=X&ei=fMRXVbu5O-XvmAXBnYGQAg&ved=0CAcQ_AUoAg#imgrc=_jPtE-9QV-aqlM%253A%3BbZmRx7VaUpwamM%3Bhttp%253A%252F%252Fmlb-s1-p.mlstatic.com%252Fmonitor-service-hp8921a-analisador-de-espectro-250khz-a-1ghz-583001-MLB20262048271_032015-F.jpg%3Bhttp%253A%252F%252Fproduto.mercadolivre.com.br%252FMLB-637345502-monitor-service-hp8921a-analisador-de-espectro-250khz-a-1ghz-_JM%3B1200%3B900

# 2158. Some good news: Melcard EEPROM cards support (and virtually any other card) and dirt-cheap RF In bulkhead replacements

Yahoo group: hp8924
Date: 2015-05-17 03:50:07 UTC
From: EA5125URE
Topic: 2158  Message: 2158
Attachments: 5 described; binary payloads are missing from this source WARC

Hi,

I have some good news:

1) Cheap MELCARD EEPROM cards are fully supported by HP 8924c and possibly others. If you refer to the reference guide, you will see it mentions MSDOS (FAT12) formatting.
These cards are *WRITABLE* and readable just fine, and while Windows support might be clunky, you can use a Linux system (with a kernel of the 4.x series) to flash and format them/ I have had success formatting a 2MB MELCARD data I bought for 20 USD using the Linux-MTD tools, as FAT12, with the mtdblock module. All I needed to do is use flash_erase to remove write-protect (if enabled), clear the EEPROM sectors and leave them ready for flashing. Afterwards I used flashcp to directly write the .bin file available in the Files section to the MTD device created via the pcmciamtd module. It is imperative that a kernel of the 4.x series is used, since they contain the new patches that enable support for PCMCIA cards that have no CIS/attribute memory. These are not supported by Windows unless you invest on expensive software. You DONT need a special reader. You DONT need special software. Linux kernels of the 4.x series will initialize the cards as anonymous memory cards, using a fake CIS, which lets the pcmciamtd driver handle them. Note that EEPROM writing is very slow, compared to SRAM. But the bottom line is: you don't need to spend much to get RF Tools and a working external card for your test equipment.

If I have time I will prepare a TinyCore based Linux system you can boot directly off a USB disk that will flash RF Tools to a card of a minimum size, provided that your computer has a working PCMCIA slot.

2) You don't need special or original parts for the RF In bulkhead Type-N Female to SMA Female adapter. These worked for me, although I ended up using an original part since I had a spare front assembly:
http://www.ebay.com/itm/1pce-N-female-jack-SMA-female-jack-nut-bulkhead-RF-adapter-connector-/320847613586?pt=LH_DefaultDomain_0&hash=item4ab4020e92

The original is exactly the same size, the only thing that changes is that it is locked in place with four screws unto the front assembly panel metal frame. The adapters above (and any like them) will fit perfectly. The nut can be tightened properly and the adapter won't move or disturb anything else. The depth inside the frame is the same. Therefore, for those who don't want to spend money on original parts, you have a working replacement for 3 bucks, or less, depending on the seller. I've used that shop and their connectors are gold plated. But

other sellers probably have the same items, just double check.

I have attached pictures and will upload them to the files section. To sum it all up: any PCMCIA slot in a laptop will work, it's a software issue. F-EEPROM cards work. There is no magic involved. F-EEPROM is slow, SRAM is faster. F-EEPROM doesn't need a battery. You can flash RF Tools easily with very little effort. All you need to know is the VPP of the card (3.3v or 5.v usually, NOT 12v for EEPROM/SRAM cards) and have a Linux system at hand. You can boot one with a USB stick or a Live CD. You need the 4.x kernel versions for proper support of the older cards.

Hopefully this alleviates the problem for some people who erroneously came to think they need to pay a ridiculous amount of money for enjoying RF Tools in their rigs. Also, the readily available bulkhead adapters might be a good thing when original parts dry up, or become ridiculously expensive. If it affects calibration so strongly, I would like to see actual technical data to back up such claims. I doubt so very much.

Same goes for the PCMCIA memory card vendors, and the ones who cater to Windows users. Paying several hundred for a glorified DMA interface is not OK. Myself, I'm quite happy I could sort out all these issues spending a negligible amount of my money. I hope this helps!

Cheers!
Lo

# 2159. Re: HP 8920 or 21

Yahoo group: hp8924
Date: 2015-05-17 06:52:18 UTC
From: Robert Atkinson
Topic: 2142  Message: 2159

"I am sure you know the 859X covers will work"
Not quite, due to connector location differences the analyser covers don't fit an 8920/21 unless you cut holes in the storage cover.
Robert G8RPI.

# 2160. Re: Some good news: Melcard EEPROM cards support (and virtually any other card) and dirt-cheap RF In bulkhead replacements

Yahoo group: hp8924
Date: 2015-05-17 06:59:36 UTC
From: Robert Atkinson
Topic: 2158  Message: 2160

Hi,Where you able to write to the MELCARD with the 8924C or just in a PC running LINUX?
What is the exact part number of the card you are using?
Robert.

# 2161. Re: [hp8924] Re: Some good news: Melcard EEPROM cards support (and virtually any other card) and dirt-cheap RF In bulkhead replacements

Yahoo group: hp8924
Date: 2015-05-17 07:40:25 UTC
From: EA5125URE
Topic: 2158 Message: 2161

Hi,

I did not mention using writing from the 8924c, since my point was that for 20 bucks, or even less, you can have RF Tools and other stuff at your disposal, up and running, which is what most people are interested on. You have plenty of space to store presets in the internal memory.

However, to answer the question: yes, you can write the cards. But the procedure isn't for novices. You need to know your way around the Linux MTD tools. Basically the card memory may require a specific VPP set and a 'write protect disable' operation that must be done at low level, with software communicating with the Flash/ROM/memory device directly. The 8924c on its own will not be able to unlock that on its own. You need to reset it on the PC.

I also dont talk unspecifics, so I wasn't going to promise writable cards with F-EEPROM based storage. For really easy in-device writing, you can have cheap SRAM cards from MELCARD too. There's a pretty big chance that soem other EEPROM card could be written by the 8924c, if its driver supports the flash/memory chip properly to issue the erase/unlock commands.

I will investigate though. This is really a software issue. Do you know if there is any hidden menu to access card diagnostics?

As for part numbers, I passed the link earlier in the long SRAM card thread. I can dig it again sometime later but it's easy to find. Also you can see it in the photos....

Oh, and keep in mind ALL of the cards out there are most likely second hand. Caveat emptor, these cards eventually become unusable due to non existent wear-leveling. Pretec and friends too. It's a necessary evil of the tech. Mine seem fine, but they have no bad sector or cycle reporting facilities.

73
Lorenzo

On 5/17/2015 8:59 AM, Robert Atkinson robert8rpi@... [hp8924] wrote:
>
> Hi,
> Where you able to write to the MELCARD with the 8924C or just in a PC
> running LINUX?
>
> What is the exact part number of the card you are using?

>
> Robert.
>
>

# 2162. Re: [hp8924] Re: Some good news: Melcard EEPROM cards support (and virtually any other card) and dirt-cheap RF In bulkhead replacements

Yahoo group: hp8924
Date: 2015-05-17 08:00:04 UTC
From: EA5125URE
Topic: 2158  Message: 2162

BTW if you send me some preset files (or a bin dump, as in a raw dump, bit to bit identical) of a card containing presets, I might be able to write a tool that lets you configure presets ready to be written to the F-EEPROM.
I frankly prefer to write protect my cards, but being able to flash presets from the computer would be nice.

Cheers

On 5/17/2015 8:59 AM, Robert Atkinson robert8rpi@... [hp8924] wrote:
>
> Hi,
> Where you able to write to the MELCARD with the 8924C or just in a PC
> running LINUX?
>
> What is the exact part number of the card you are using?
>
> Robert.
>
>

# 2163. RF Tools on Linear Flash Card - ready to go $50

Yahoo group: hp8924
Date: 2015-05-18 13:59:21 UTC
From: robert8rpi@...
Topic: 2163  Message: 2163

Firstly, well done to Teslascope for finding the MELCARD F-EPROM cards and a LINUX solution for programming them. However, for those who don't want to delve into LINUX, don't have a laptop with a PCMCIA slot or simmply not hunt doewn a card with a chance of it being faulty(I have a small box full of ones that don't work if anyone wants one :-), I can still offer RF TOOLS (and the NA FM tests, but they mostly don't work on the 8924C without modification) on a professional quality Linear Flash PCMCIA card for $50 US including shipping to list members. I also include a CD-ROM with manuals and other useful stuff.
I know it's a sales plug, but $50 barely covers the cost of the card and shipping.
If interested, contact me directly at robert8rpi AT yahaoo DOT co DOT uk

Regards,
Robert G8RPI.

# 2164. Re: HP 8920 or 21

Yahoo group: hp8924
Date: 2015-05-19 00:36:26 UTC
From: jyelmgren@...
Topic: 2142  Message: 2164

The connectors are not in the same spots as the 8920 but they use the same type on the 8590 spectrum analyzer do the covers clear just fine on the ones I used.

And yes those covers do have an accessory compartment.

I have used an 8590 cover numerous times on 8920's ...just say spectrum analyzer instead of the typical 8920 label in the middle of the front.

It may have a different internal layout for the accessory compartment and these were the older 8590 front covers .

# 2165. cover

Yahoo group: hp8924
Date: 2015-05-19 01:05:33 UTC
From: Ralph S. Turk
Topic: 2165  Message: 2165

Where do I find a 8590 cover. Ebay has nothing. I found one in England but it doesn"t have a compartment.

Ralph

# 2166. Re: cover

Yahoo group: hp8924
Date: 2015-05-19 06:19:55 UTC
From: Robert Atkinson
Topic: 2165  Message: 2166

Hi Ralph,I can only find the non-compartment covers. When I tried a analyser cover, I can't remember the exact model, on my 8920A it would not fit. The BNCs at the right hand side foulded the cover. It may be that later covers are more universal. I know the part numbers have changed over the years. I've always found the analyser covers to be harder to find than the test set types.Does your test set have the mounting hooks already fitted? Robert G8RPI.

# 2167. Re: [hp8924] Re: cover

Yahoo group: hp8924
Date: 2015-05-19 16:03:33 UTC
From: Ralph S. Turk
Topic: 2165  Message: 2167

Hi Robert
Yes my unit has the mounting clips. My Dayton contact did not find a cover. Let me know how to
pay you for the shipping and cover.

Thanks
Ralph, W7HSG

----- Original Message -----

From: "Robert Atkinson robert8rpi@... [hp8924]" <hp8924@yahoogroups.com>
To: "hp8924" <hp8924@yahoogroups.com>
Sent: Monday, May 18, 2015 11:19:55 PM
Subject: [hp8924] Re: cover

Hi Ralph,
I can only find the non-compartment covers. When I tried a analyser cover, I can't remember the exact model, on my 8920A it would not fit. The BNCs at the right hand side foulded the cover. It may be that later covers are more universal. I know the part numbers have changed over the years. I've always found the analyser covers to be harder to find than the test set types.
Does your test set have the mounting hooks already fitted?
Robert G8RPI.

# 2168. LCD Conversion

Yahoo group: hp8924
Date: 2015-05-21 02:35:22 UTC
From: kd5zrh@...
Topic: 2168  Message: 2168

I have heard that there is a conversion kit to convert the 8920 and 8924 CRT to an LCD screen.
Any truth to this or does anyone have any info and can point me in the right direction to convert my CRT to LCD?

Thanks,

# 2169. Re: LCD Conversion

Yahoo group: hp8924
Date: 2015-05-21 02:46:52 UTC
From: richnaomi@...
Topic: 2168  Message: 2169

Be fantastic if there were.

Imagine the power and weight savings for field work (for the 8920 & 21 anyway).

Also, being able to increase the display size to the full extent of the frame/bezel would be awsome.

Alas, the only LCD mod I know about is the Video converter that allows you to run the rear video output signal into a computer monitor. I have this setup on the bench, but I still find myself looking at the tiny green CRT because it is close to the controls.

With the number of these things still in daily service, maybe someone will come up with a practical LCD mod for the internal CRT.

# 2170. Re: Any interest in USB PCMCIA Flash adapter or LCD Conversion for the 8935 others?

Yahoo group: hp8924
Date: 2015-05-21 02:51:33 UTC
From: richnaomi@...
Topic: 892  Message: 2170

Can you provide more infor on the LCD conversion?

I have an 8920 that I would love to convert to LCD.

I have had experience with the external video converter mod, but which LCD module do you use?

# 2171. Re: LCD Conversion

Yahoo group: hp8924
Date: 2015-05-21 06:31:42 UTC
From: Robert Atkinson
Topic: 2168  Message: 2171

Hi,There are kits available for the vector scan instruments like the 8566 spectrum analyser but these are expensive. At least one kit includes a modified bezel. I don't know of a "plug and play" kit for the 892x range. You could just fir athe Gonbes converter and a small VGA panel. These panels are sold quite cheaply for use in cars, they often have composite vidieo inputs too. you would have to do your own mounting hardware though. I could do it but have no need to for myself. Robert G8RPI.

# 2172. Re: LCD Conversion

Yahoo group: hp8924
Date: 2015-05-22 03:12:44 UTC
From: kd5zrh@...
Topic: 2168  Message: 2172

Thanks for the info Robert.
Would you have any info as to where I might look for them?
I have tried a Google search but to no avail.

# 2173. Re: [hp8924] Re: LCD Conversion

Yahoo group: hp8924
Date: 2015-05-22 06:20:03 UTC
From: Tim
Topic: 2168  Message: 2173

On 22/05/2015 1:12 PM, kd5zrh@... [hp8924] wrote:
>
> Thanks for the info Robert.
> Would you have any info as to where I might look for them?
> I have tried a Google search but to no avail.
>
>

LCD's for popular HP kit are made by Simmconn Labs.

Find them here...

http://www.simmconnlabs.com/

and here...

http://stores.ebay.com.au/simmconnlabs?

I'm considering getting a unit for my 8566 since its CRT beginning to dim.

regards

Tim

--
VK2XAX :: QF56if23 :: BMARC :: WIA :: AMSATVK

# 2174. Re: LCD Conversion

Yahoo group: hp8924
Date: 2015-05-22 13:25:04 UTC
From: jyelmgren@...
Topic: 2168  Message: 2174

The 892X wouldn't be that bad to convert to LCD since there is in inexpensive VGA converter and lots of cost effective LCD based VGA screens that could potentially fit.

The CRT assembly and new tubes still seem to be plentiful so at this point I would just stick with fixing vs. upgrading.

It may save a few pounds of weight but you may have issues on the 8920 with screen brightness in direct sunlight fro field work

# 2175. Re: LCD Conversion

Yahoo group: hp8924
Date: 2015-05-22 15:53:26 UTC
From: Robert Atkinson
Topic: 2168  Message: 2175

4:3 LCDs are getting harder to find. Ebay item 371075775010 looks like a possible choice.
It might even be worth trying the 892X input direct to the monitor, it might lock up to the 19kHz video without the Gonbes converter.
Robert G8RPI.

# 2176. Re: [hp8924] Re: LCD Conversion

Yahoo group: hp8924
Date: 2015-05-22 21:48:21 UTC
From: Rix
Topic: 2168  Message: 2176

I would second the comment about screen brightness. In my past life I had a handful of special purpose terminals with lcd screens that looked great indoors but were essentially blank in sunlight or even bright shade. Night time no problem.
If memory serves correctly the screen brightness was measured in nits, not the ones that itch, and for outdoors the screens had to be at least three time$ brighter.

On 5/22/2015 9:25 AM, jyelmgren@... [hp8924] wrote:
>
> The 892X wouldn't be that bad to convert to LCD since there is in
> inexpensive VGA converter and lots of cost effective LCD based VGA
> screens that could potentially fit.
>
>
> The CRT assembly and new tubes still seem to be plentiful so at this
> point I would just stick with fixing vs. upgrading.
>
> It may save a few pounds of weight but you may have issues on the 8920
> with screen brightness in direct sunlight fro field work
>

--
Rix Seacord
K2AVP Extra

845-628-0892 Home
914-262-9186 Cell
914-233-3886 Skype
When addressed to an individual, all emails are considered private coorespondence and should not be discussed with any other parties unless permission is obtained from the originator.

# 2177. Re: LCD Conversion

Yahoo group: hp8924
Date: 2015-05-22 23:58:21 UTC
From: richnaomi@...
Topic: 2168  Message: 2177

It can work both ways.

Personally, I find it almost impossible to see the green screen crt on my 8920 when the sun is shining on it.

I also have a General Dynamics R2950 service monitor that allows you to set the LCD display to traditional black on white monochrome LCD. In that mode, the display is fantastic in the sunlight.

Almost all service monitors suffer from the sunlight problem and usually require you to relocate to the shade somewhere.

Ebay item 371075775010 does look promising but as a previous poster pointed out, is it really worth going to the trouble to re-engineer the display when brand new CRT's are still available for a few hundred $'s?

# 2178. Re: LCD Conversion

Yahoo group: hp8924
Date: 2015-05-23 23:21:42 UTC
From: wb6dgn_tom@...
Topic: 2168  Message: 2178

"...is it really worth going to the trouble to re-engineer the display when brand new CRT's are still available for a few hundred $'s?"

I have never been a big fan of CRTs, even when it was the only choice available. I always believed that there's got to be a better way. My main gripes are reliability, heat, power consumption, size and weight.
So...yes, I would be very interested in an LCD conversion for my 8924 IF I could afford it. I set a very limited budget for my hobbies these days and I haven't seen any prices (I NEVER go to ebay) so I don't have much perspective on that part of the solution but I will watch the topic carefully.

# 2179. Re: LCD Conversion

Yahoo group: hp8924
Date: 2015-05-24 08:42:47 UTC
From: Robert Atkinson
Topic: 2168  Message: 2179

Hi,The parts for the proposed DIY conversion, 5.6" LCD and Gonbes scan converter, would be around $150. The source is ebay though :-)The "professional" conversions are about ten times as much, but I've not seen one specifically for the 892x range.
Rbert G8RPI.

# 2180. Symbols and messages in top screen

Yahoo group: hp8924
Date: 2015-05-29 22:51:33 UTC
From: rhyolite@...
Topic: 2180  Message: 2180

Does anyone have a reference for the symbols and messages in the top of the screen of the 8920/8924?

I don't use mine often, but today noticed "L" in the upper right followed by "-" a few spaces away. I think this means Local for the HPIB but really would like to look this up.

# 2181. Agilent HP Keysight E8290-10003 - 8924C 8924E E8285A CDMA/AMPS PoST Software CD

Yahoo group: hp8924
Date: 2015-07-30 21:55:01 UTC
From: willard561@...
Topic: 2181  Message: 2181

What use is this item http://www.ebay.com/itm/Agilent-HP-Keysight-E8290-10003-8924C-8924E-E8285A-CDMA-AMPS-PoST-Software-CD-/361306384758?hash=item541f89e976 http://www.ebay.com/itm/Agilent-HP-Keysight-E8290-10003-8924C-8924E-E8285A-CDMA-AMPS-PoST-Software-CD-/361306384758?hash=item541f89e976

Bill

# 2182. Re: Agilent HP Keysight E8290-10003 - 8924C 8924E E8285A CDMA/AMPS PoST Software CD

Yahoo group: hp8924
Date: 2015-07-30 21:59:18 UTC
From: clif@...
Topic: 2181  Message: 2182

Working on the old style cellular systems that are no longer in use..... My thoughts.

# 2183. Re: Agilent HP Keysight E8290-10003 - 8924C 8924E E8285A CDMA/AMPS PoST Software CD

Yahoo group: hp8924
Date: 2015-07-30 22:02:15 UTC
From: willard561@...
Topic: 2181 Message: 2183

A search brought up the following info from the Agilent Technologies E8285A CDMA Mobile Station Test Set Product Note http://cp.literature.agilent.com/litweb/pdf/5968-8837E.pdf http://cp.literature.agilent.com/litweb/pdf/5968-8837E.pdf
"
Automated Software
E8290A PoST PC-Based Software
The 8924C and the E8285A can both be utilized in conjunction with the new E8290A Point of Service Test (PoST) PC-based software to automate dual-mode mobile phone testing. The easy-to-use, mouse-driven, on-screen graphics allow operators to make fast, accurate, and repeatable measurements with minimal training, virtually eliminating the need for manual interaction with the 8924C or the E8285A. This allows sales clerks and other non-technical personnel to perform testing at the point of sale, and thereby respond more quickly to customer problems.
A built-in database allows the operator to view results for further analysis. Reports can be generated and data can be combined into customer-care databases so trends in phone performance can be characterized. The 8924C or the E8285A and E8290A solution saves cost by reducing the number of No Trouble Found (NTF) phones sent back to manufacturers and by reducing the number of phones handed out as exchange replacements.
The combination of the E8290A CDMA PoST software and the 8924C or the E8285A provides a practical test solution to meet your R&D needs as well. The E8290A features two modes of operation: one that ensures ease-of-use for non-technical users, and another that provides access to a rich development environment.
In the software's password-protected development mode, technical operators can access the software's full set of capabilities. Test configurations, tests plans, test specifications and measurement parameters can all be set up and customized with ease"

So not of use to us

---In hp8924@yahoogroups.com, <willard561@...> wrote :

What use is this item http://www.ebay.com/itm/Agilent-HP-Keysight-E8290-10003-8924C-8924E-E8285A-CDMA-AMPS-PoST-Software-CD-/361306384758?hash=item541f89e976 http://www.ebay.com/itm/Agilent-HP-Keysight-E8290-10003-8924C-8924E-E8285A-CDMA-AMPS-PoST-Software-CD-/361306384758?hash=item541f89e976

Bill

# 2184. Re: [hp8924] Agilent HP Keysight E8290-10003 - 8924C 8924E E8285A CDMA/AMPS PoST Software CD

Yahoo group: hp8924
Date: 2015-07-31 09:38:27 UTC
From: Robert Atkinson
Topic: 2181  Message: 2184

A $50 coaster  to keep coffee stains off the work bench :-)
Its for automated testing old hybrid analog/digital mobile phones. Not much practical use.
Robert G8RPI.

From: "willard561@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Thursday, 30 July 2015, 22:55
Subject: [hp8924] Agilent HP Keysight E8290-10003 - 8924C 8924E E8285A CDMA/AMPS PoST Software CD

  What use is this item http://www.ebay.com/itm/Agilent-HP-Keysight-E8290-10003-8924C-8924E-E8285A-CDMA-AMPS-PoST-Software-CD-/361306384758?hash=item541f89e976

Bill

# 2185. Re: [hp8924] Agilent HP Keysight E8290-10003 - 8924C 8924E E8285A CDMA/AMPS PoST Software CD

Yahoo group: hp8924
Date: 2015-08-01 13:40:22 UTC
From: willard561@...
Topic: 2181  Message: 2185

Nah it's too small for most cups of coffee. I was hoping it was for Power On Self Test, but it's not oh well live & learn.

# 2186. AGILENT E8285A firmware downgrade possible?

Yahoo group: hp8924
Date: 2015-08-14 23:18:38 UTC
From: Frank Hughes
Topic: 2186  Message: 2186

Hi,I have had an E8285A for a few years(bought from AMTRONIX) for amateur radio use, works great, and addingthe "RF tools" made it even more useful. A0204 firmware.
This week, an excellent conditionE8285A came up for sale locally too cheap to pass up.
The only issue is that it is runningA0509 firmware, and thus won't operate at HF frequencies.
Is downgrading the firmware evenpossible?
If the firmware could be downgraded,how would I get it calibrated for the lower frequencies, is this afactory only cal?
AMTRONIX says: "Some newer E8285A units operateonly from 800 MHz and above because they have newer firmware andtheir input module was not factory calibrated the full range.
Most E8285A units with newer firmwarecan not be converted to 0.4 to 1000 MHz use because the factory didnot calibrate the input module for use below 800 MHz."

If the new E8285A is just going to be aparts donor for the older one, OK, but I just want to be sure thatthe newer unit is impossible to make operate at HF frequencies.
73Frank Hughes KJ4OLL

# 2187. Re: [hp8924] AGILENT E8285A firmware downgrade possible?

Yahoo group: hp8924
Date: 2015-08-15 08:12:13 UTC
From: Robert Atkinson
Topic: 2186  Message: 2187

Hi,I don't know the E8285 as well as the 8924, but as far as I know they use a solid state input module. The solid state input modules won't go down to 400kHz due to the PIN diode switches and blocking capacitors, so the erfonce is in theory limited to 30MHz. Check the 8924C and E8285A Assembly Level Repair Guides to see if the input module is the same part number.  If they are, ask Keysight if they can calibrate a "8924" input module down to 30MHz. They have been making  lot of noise about supporting older instruments of late.
HTH,Robert.

From: "Frank Hughes hp_ciscovss@yahoo.com [hp8924]" <hp8924@yahoogroups.com>
To: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
Sent: Saturday, 15 August 2015, 0:18
Subject: [hp8924] AGILENT E8285A firmware downgrade possible?

  Hi,I have had an E8285A for a few years(bought from AMTRONIX) for amateur radio use, works great, and addingthe "RF tools" made it even more useful. A0204 firmware.
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If the new E8285A is just going to be aparts donor for the older one, OK, but I just want to be sure thatthe newer unit is impossible to make operate at HF frequencies.
73Frank Hughes KJ4OLL

# 2188. Re: AGILENT E8285A firmware downgrade possible?

Yahoo group: hp8924
Date: 2015-08-15 08:26:05 UTC
From: zl1cvd@...
Topic: 2186  Message: 2188

Hi Frank. I have the older firmware and have applied it to one of my two E8285A's. The firmware updates flash data stored on Main Processor, DSP Processor, Cell Site 1 Processor, Cell Site 2 Processor & Protocol Processor cards. Once this is done, those cards are now no-longer interchangeable with units running a different firmware version - they all talk via a serial BUS upon boot to confirm status, firmware version, etc. Your correct that the calibration will be out once upgraded. The Calibration data for the downconverter is stored in U304 (Xicor X25128 128K serial E2PROM) - it stores DAC filter values (see page 257 of service manual) for TUNE 1, TUNE 2 & TUNE 3 at various frequencies - I believe these are burnt at factory. I have read the E2PROM to see if I could make sense and hack it but its gibberish to me - I need an Intel HEX file of a factory calibrated E8285A so I can compare bits. Now, I did find that through a service menu I could manually adjust the hex values for each filter to vastly improve response at HF. Problem is, you can't store those values and I couldn't see where in the E2PROM they were to change. So I'm sort of stuck until some kind soul can provide me with a U304 HEX of a calibrated HF capable E8285A. Also of note, when I downgraded mine, I plotted the sensitivity so you can see what sensitivity ends up being - I'll upload it to the photos folder under ZL1CVD album. 73s om de chris zl1cvd

# 2189. Re: [hp8924] Re: AGILENT E8285A firmware downgrade possible?

Yahoo group: hp8924
Date: 2015-08-15 08:35:33 UTC
From: Robert Atkinson
Topic: 2186  Message: 2189

Hi Chris,As I understand it, if you buy a replacement input (or some other modules) from HP/A/K it comes with a PCMCIA card with calibration factors on it. Presumably these are written to the EEPROM, so it must be possible to change the data without removing the EEPROM.

Robert G8RPI.

From: "zl1cvd@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Saturday, 15 August 2015, 9:26
Subject: [hp8924] Re: AGILENT E8285A firmware downgrade possible?

Hi Frank. I have the older firmware and have applied it to one of my two E8285A's. The firmware updates flash data stored on Main Processor, DSP Processor, Cell Site 1 Processor, Cell Site 2 Processor & Protocol Processor cards. Once this is done, those cards are now no-longer interchangeable with units running a different firmware version - they all talk via a serial BUS upon boot to confirm status, firmware version, etc. Your correct that the calibration will be out once upgraded. The Calibration data for the downconverter is stored in U304 (Xicor X25128 128K serial E2PROM) - it stores DAC filter values (see page 257 of service manual) for TUNE 1, TUNE 2 & TUNE 3 at various frequencies - I believe these are burnt at factory. I have read the E2PROM to see if I could make sense and hack it but its gibberish to me - I need an Intel HEX file of a factory calibrated E8285A  so I can compare bits. Now, I did find that through a service menu I could manually adjust the hex values for each filter to vastly improve response at HF. Problem is, you can't store those values and I couldn't see where in the E2PROM they were to change. So I'm sort of stuck until some kind soul can provide me with a U304 HEX of a calibrated HF capable E8285A.  Also of note, when I downgraded mine, I plotted the sensitivity so you can see what sensitivity ends up being - I'll upload it to the photos folder under ZL1CVD album. 73s om de chris zl1cvd

# 2190. Re: [hp8924] AGILENT E8285A firmware downgrade possible?

Yahoo group: hp8924
Date: 2015-08-15 09:15:47 UTC
From: zl1cvd@...
Topic: 2186  Message: 2190

Totally different modules - E8285A goes to 2GHz and uses up/down-converters. But yes, they are PIN diode filter tuned and HP recommended them 'accurate' for 30/40MHz or above. They do however work down much lower with reduced and non-linear sensitivity. They are certainly not flat response like the relay switched 8924C & 892x analogue modules...

# 2191. Re: [hp8924] Re: AGILENT E8285A firmware downgrade possible?

Yahoo group: hp8924
Date: 2015-08-15 09:20:41 UTC
From: zl1cvd@...
Topic: 2186  Message: 2191

Yes, that's correct for options like attenuator, spec analyzer, etc. But I cannot see how the circuit can support writing serial data to the IC in question. Could be wrong but when I asked Rick, he indicated it was a factory job - having desoldered it, read it, studied the surrounding circuit, I think this is the case..

# 2192. Re: AGILENT E8285A firmware downgrade possible?

Yahoo group: hp8924
Date: 2015-08-15 14:50:07 UTC
From: george@...
Topic: 2186  Message: 2192

Frank, I recently did exactly what you describe. Amtronix sent me the PC card with the lower rev firmware, for a slight fee. There is also a New Zealand ham on eBay selling the same thing for maybe about $100, don't remember the exact amount but search on 8285a. The procedure takes maybe ten minutes. The good news is that comparing it to my 6380's it is obviously accurate on frequency but also real, real close on levels. Not close enough to swear to in commercial service but if you are troubleshooting something it is fine. I found the NZ guy too late and had already paid Amtronix, where I could have bought and kept the cards from the NZ guy. I got my 8285a from a government auction, and while the shipping company dropped it and mangled three never used BNC's on the front right lower corner the unit is fine and I want to find more, convert and sell. I paid $120 for the one I have plus $60 to Amtronix.

GeorgeC
W2DB
Cedar Park, TX

# 2193. New file uploaded to hp8924

Yahoo group: hp8924
Date: 2015-08-16 08:31:14 UTC
From: hp8924@yahoogroups.com
Topic: 31  Message: 2193

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hp8924
group.

File : /E8285A Firmware Downgrade Notes.pdf
Uploaded by : c_day_nz <zl1cvd@...>
Description : How to manually tune E8285A down converter input filter to improve
sensitivity.

You can access this file at the URL:
https://groups.yahoo.com/neo/groups/hp8924/files/E8285A%20Firmware%20Downgrade%20Notes.pdf

To learn more about file sharing for your group, please visit:
https://help.yahoo.com/kb/index?page=content&y=PROD_GRPS&locale=en_US&id=SLN15398

Regards,

c_day_nz <zl1cvd@...>

# 2194. 8285a schematics

Yahoo group: hp8924
Date: 2015-08-16 14:54:51 UTC
From: george@...
Topic: 2194  Message: 2194

Chris was asking for schematics, etc, made me look. just realized that my definition of assembly level service and HP's is very different. I was almost certain I had schematics and it turned out to be only block diagrams and where the happy lights are...

But thanks for the calibration procedure. Wouldn't saving as "POWERON" retain this? I'd try but mine is buried in the 100º garage

GeorgeC
W2DB
Cedar Park, TX

# 2195. for sale

Yahoo group: hp8924
Date: 2015-09-06 18:59:50 UTC
From: wb7dmx@...
Topic: 2195  Message: 2195

have one agilent 8924 c for sale.
comes with a video adapter for two monitors, two displays a motorla michpone for audio input also the rf tools card, all functions operate very good,
located in Christmas florida. will not ship, must be picked up in person.

make offer.
bob
WB7DMX

# 2196. Re: for sale

Yahoo group: hp8924
Date: 2015-09-06 19:30:18 UTC
From: wb7dmx@...
Topic: 2195  Message: 2196

forgot, it is the 100 watt, also the photo is in the photo section

# 2197. Re: [hp8924] for sale

Yahoo group: hp8924
Date: 2015-09-07 01:51:39 UTC
From: Mickey Baker
Topic: 2195  Message: 2197

On Sun, Sep 6, 2015 at 2:59 PM, wb7dmx@... [hp8924] <
hp8924@yahoogroups.com> wrote:

> Christmas florida.

Hi, Bob, I'm a couple of hours away.

How much?

73,

Mickey N4MB

Mickey Baker, N4MB
Fort Lauderdale, FL
*“Tell me, and I will listen. Show me, and I will understand. Involve me,
and I will learn.” *Teton Lakota, American Indian Saying.

# 2198. Re: [hp8924] for sale

Yahoo group: hp8924
Date: 2015-09-07 03:14:25 UTC
From: wb7dmx@att.net
Topic: 2195  Message: 2198
Attachments: 2 described; binary payloads are missing from this source WARC

Well, I paid $1200.00 for it about a year ago. So make your best offer.

-------Original Message-------

From: Mickey Baker fishflorida@... [hp8924]
Date: 09/06/15 21:52:21
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] for sale

On Sun, Sep 6, 2015 at 2:59 PM, wb7dmx@... [hp8924] <hp8924@yahoogroups
com> wrote:

Christmas florida.

Hi, Bob, I'm a couple of hours away.

How much?

73,

Mickey N4MB

Mickey Baker, N4MB
Fort Lauderdale, FL
“Tell me, and I will listen. Show me, and I will understand. Involve me, and
I will learn.” Teton Lakota, American Indian Saying.

# 2199. Re: [hp8924] for sale

Yahoo group: hp8924
Date: 2015-09-07 04:36:02 UTC
From: Peter Lowmass
Topic: 2195  Message: 2199
Attachments: 2 described; binary payloads are missing from this source WARC

Hi.
1200 sounds good, however I am in western australia.
Thanks for the offer.
All the best.
Peter.

Sent from my iPhone

> On 7 Sep 2015, at 11:14 am, 'wb7dmx@...' wb7dmx@... [hp8924] <hp8924@yahoogroups.com> wrote:
>
>
> Well, I paid $1200.00 for it about a year ago. So make your best offer.
>
>
>
>
>
> -------Original Message-------
>
> From: Mickey Baker fishflorida@... [hp8924]
> Date: 09/06/15 21:52:21
> To: hp8924@yahoogroups.com
> Subject: Re: [hp8924] for sale
>
>
>
> On Sun, Sep 6, 2015 at 2:59 PM, wb7dmx@... [hp8924] <hp8924@yahoogroups.com> wrote:
> Christmas florida.
>
> Hi, Bob, I'm a couple of hours away.
>
> How much?
>
> 73,
>
> Mickey N4MB
>
>
> Mickey Baker, N4MB
> Fort Lauderdale, FL
> “Tell me, and I will listen. Show me, and I will understand. Involve me, and I will learn.” Teton Lakota, American Indian Saying.
>
> <butterfly_top.gif>

> FREE Animations for your email
> Click Here!
> <butterfly_bottom.gif>
>
>

# 2200. E8285A batteries question

Yahoo group: hp8924
Date: 2015-09-08 11:40:12 UTC
From: hp_ciscovss@...
Topic: 2200  Message: 2200

Hi,
I want to replace the batteries in mine, don't have any manual for the E8285A (yet - on order from ZL1CVD)

I know which p/n to order (658-BR2-3AE2SP) from Mouser for the 3V Lithium.
I even found this battery during the recent dis-assembly.

No idea where or what kind of battery for the "Coin Cell": is it solder tabs or snap in?
Mouser:
658-CR2477 - snap-in

658-BR2-3AE2SP - solder pins
73
Frank
KJ4OLL

# 2201. Re: E8285A batteries question

Yahoo group: hp8924
Date: 2015-09-09 08:20:25 UTC
From: zl1cvd@...
Topic: 2200  Message: 2201

The button cell is located on the memory unit (E6380-60151) and is soldered in. The other is located on the regulator unit (E8285-60102) and is also soldered in. 73s om de chris zl1cvd

# 2202. OPT 005 - Memory Upgrade for 8920A

Yahoo group: hp8924
Date: 2015-09-11 05:55:55 UTC
From: jheine3@...
Topic: 2202  Message: 2202

Does anyone know how the option 005 (Memory upgrade) works on the 8920A Models?

I have a 8920A that has memory board (P/N 08920-60166) with only 4 of the 6 extra memory chips installed. Total memory installed is 640.0 kBytes according to RAM_USAGE in the tests menu. I installed 2 additional SRAM chips of the same type and was expecting the memory amount to increase.

Checking out the CLIP (08920-90107) Page 86 there a note at the top [04/15/91] which shows the RAM addressing and mentions OPT3 for U29 & U30, these are the newly installed ones. There's also a note "Optional Memory * see 02/05/91 note" that may have more info but I haven't had any luck locating that one.

Have any of you guys ran across this? I'm thinking the extra ram may have to be turned on somewhere in the firmware...

I trying to figure if there's a correlation to options installed and the value that is located in
the CONFIG > LATCH > "INSTRUMENT_OPTIONS" Value.

If anyone could take some time to check a few things on your unit for me, I would be grateful.

- List the firmware version
- Options installed (lowest to highest)
- Memory amount (TESTS > RAM_USAGE)
- Instrument Option hex value (CONFIG menu, LATCH name = Instrument_options)

For instance mine would be:
Version: A.14.14
Options: 001, 002, 003, 004, 005
Memory: 640 kbyte
Instrument_Options = 2F

Thanks

Jay

# 2203. 8924c not powering up, where to start

Yahoo group: hp8924
Date: 2015-09-16 06:40:50 UTC
From: Ross Johnson
Topic: 2203  Message: 2203

Hello group,

This could not have happened at a worse time. A repeater moved causing my coordination to change and now my saving grace wont turn on. It was working fine a couple months ago. When I first checked it the green LED was on, on the back of the unit (even with the button off) but would still not power, and now it's no longer on after being unplugged and moved. Made no sounds or smells just dead.

I really regret leaving it plugged into a energized outlet all these years. Guessing power button off was really just stand-by.

Just looking where to start and if these symptoms are known. Looking over the posts I see 1000's related to power supply but not a failure like this.

Thanks for reading,

Ross kc7rjk
kc7rjk@gmail.com

Sent from my Verizon Wireless 4G LTE DROID

# 2204. Re: [hp8924] 8924c not powering up, where to start

Yahoo group: hp8924
Date: 2015-09-16 07:18:25 UTC
From: Ross Johnson
Topic: 2203  Message: 2204

Update: the green led on the power supply is back no matter the state of the power button again.

Case in point, i need a quick fix, should I just throw a new PS at it and cross my fingers??? It's just not good I like to fix things...

Thanks again,
Ross
Kc7rjk

Sent from my Verizon Wireless 4G LTE DROID
On Sep 15, 2015 11:40 PM, "Ross Johnson kc7rjk@comcast.net [hp8924]" <hp8924@yahoogroups.com> wrote:

Hello group,

This could not have happened at a worse time. A repeater moved causing my coordination to change and now my saving grace wont turn on. It was working fine a couple months ago. When I first checked it the green LED was on, on the back of the unit (even with the button off) but would still not power, and now it's no longer on after being unplugged and moved. Made no sounds or smells just dead.

I really regret leaving it plugged into a energized outlet all these years. Guessing power button off was really just stand-by.

Just looking where to start and if these symptoms are known. Looking over the posts I see 1000's related to power supply but not a failure like this.

Thanks for reading,

Ross kc7rjk
kc7rjk@gmail.com

Sent from my Verizon Wireless 4G LTE DROID

# 2205. Re: [hp8924] 8924c not powering up, where to start

Yahoo group: hp8924
Date: 2015-09-16 08:25:33 UTC
From: zl1cvd@...
Topic: 2203  Message: 2205

I'd be checking for physical damage - remove covers, remove front & check the switch with a meter. Pull out the supply, remove covers, check AC socket - especially solder joints. R23 gets hot so its joints dry out. Look closely with a glass before re-soldering - if it was dry, chances are problem fixed - throw it all together and give it a wurl. While your in the supply you should do all the caps but you asked for a quick fix... 73s om de chris zl1cvd

# 2206. Re: [hp8924] 8924c not powering up, where to start

Yahoo group: hp8924
Date: 2015-09-16 08:29:27 UTC
From: zl1cvd@...
Topic: 2203  Message: 2206

.. oh and don't be scared of getting stuck into the set. They are built like a brick out house and can handle a bit of abuse. You should see the state of some units I have received here in NZ! Some people have no idea how to pack for a long trip...

# 2207. Re: [hp8924] 8924c not powering up, where to start

Yahoo group: hp8924
Date: 2015-09-16 14:26:38 UTC
From: Ralph Mowery
Topic: 2203  Message: 2207

I think you can find some info in the files section of then ews group about replacing capacitors in the power supply.
I had one that the green light was on.  Sometimes it would power up and if left plugged in, it would come on every time.  If left unplugged, it might take it half an hour to decide to come up.
Amtronix  supplied me a new supply  (rebuilt I am sure) for about $ 200,but I got $ 50 back when I sent them my old one.The first one I got from them the green led would not come on.  A phone call or email (don't recall which) to them and another one was sent out right away.  It has been working fine for over a year now.

From: "Ross Johnson kc7rjk@... [hp8924]" <hp8924@...m>
To: hp8924@yahoogroups.com
Sent: Wednesday, September 16, 2015 3:18 AM
Subject: Re: [hp8924] 8924c not powering up, where to start

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Update: the green led on the power supply is back no matter the state of the power button again.
Case in point, i need a quick fix, should I just throw a new PS at it and cross my fingers??? It's just not good I like to fix things...
Thanks again,RossKc7rjk
Sent from my Verizon Wireless 4G LTE DROIDOn Sep 15, 2015 11:40 PM, "Ross Johnson kc7rjk@... [hp8924]" <hp8924@yahoogroups.com> wrote:

Hello group,
This could not have happened at a worse time. A repeater moved causing my coordination to change and now my saving grace wont turn on. It was working fine a couple months ago. When I first checked it the green LED was on, on the back of the unit (even with the button off) but would still not power, and now it's no longer on after being unplugged and moved. Made no sounds or smells just dead.
I really regret leaving it plugged into a energized outlet all these years. Guessing power button off was really just stand-by.
Just looking where to start and if these symptoms are known. Looking over the posts I see 1000's related to power supply but not a failure like this.
Thanks for reading,
Ross kc7rjkkc7rjk@...
Sent from my Verizon Wireless 4G LTE DROID

# 2208. Question regarding 8285 RF diagnostics failures.

Yahoo group: hp8924
Date: 2015-09-16 22:05:31 UTC
From: blaze_1024@...
Topic: 2208  Message: 2208

Good Afternoon,
New to this group an the 8285.
I need some advice regarding some error messages I'm seeing on a newly acquired 8285a

While evaluating this unit I ran the the built in RF Diagnostics program and get 42 failures, As best I can tell they all seem to revolve around the DAC such as the filter tune DAC gain. Also when pressing the messages button I see a message
"New module Cal detected uploading Cal file OUT_DIAG_LIM"
The next line reads
"Cal checksum error in file OUT_DIAG_LIM"

Upon quick review of the Assembly Level Repair manual As best I can tell this might be something that can be resolved by running the "Periodic IQ, or IQ Demod Path Calibration Programs.

I don't know this piece of equipment that well and am looking for advice, Are the "Periodic IQ, or IQ Demod Path Calibration Programs" something that should be left for a service center to perform or is it something that is safe for me to run without risking making problems worse

For reference I'm experienced using older Motorola and IFR equipment, this is my first HP Test set.
Best Regards
Dan

ps: I will attempt to upload screen shots of the error screens..

# 2209. Re: [hp8924] for sale

Yahoo group: hp8924
Date: 2015-09-24 03:21:05 UTC
From: wb7dmx@...
Topic: 2195  Message: 2209

well, if your looking for the lowest price I would like to get. how about the 8924, one dual port video converter, one mic, all for just $800.00 cash

# 2210. Re: [hp8924] for sale

Yahoo group: hp8924
Date: 2015-09-24 03:27:30 UTC
From: wb7dmx@...
Topic: 2195  Message: 2210

the photo album is listed under gbs 8220

# 2211. Re: for sale

Yahoo group: hp8924
Date: 2015-09-25 01:35:25 UTC
From: wb7dmx@...
Topic: 2195  Message: 2211

please.
I am losing my home and need to get rid of all my ham radio and testing equipment and antennas.

# 2212. Re: for sale

Yahoo group: hp8924
Date: 2015-09-27 18:23:10 UTC
From: jyelmgren@...
Topic: 2195  Message: 2212

the best option is to list this on Ebay and factor in the packing cost from the UPS store.

You will get more bidders if you can ship it

These units are heavy but can still be sent by the usual carriers.

Good luck

# 2213. RE: [hp8924] Re: for sale

Yahoo group: hp8924
Date: 2015-09-27 21:21:21 UTC
From: Mike Besemer
Topic: 2195  Message: 2213

I HIGHLY recommend a foam-in-place pack for the -8924. Anything else and Brown will do it to you.

Mike

WM4B

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com]
Sent: Sunday, September 27, 2015 2:23 PM
To: hp8924@yahoogroups.com
Subject: [hp8924] Re: for sale

the best option is to list this on Ebay and factor in the packing cost from the UPS store.

You will get more bidders if you can ship it

These units are heavy but can still be sent by the usual carriers.

Good luck

# 2214. Re: [hp8924] Re: for sale

Yahoo group: hp8924
Date: 2015-09-27 22:11:51 UTC
From: Ralph Mowery
Topic: 2195  Message: 2214

Guess that I was lucky.  Bought one a few years ago and it had about 6 inches of bubble wrap around it.  Nice units,but very heavy. Just glad the repeater I work on is in a building at ground level and I can drive very close to it.

From: "'Mike Besemer' mwbesemer@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Sunday, September 27, 2015 5:21 PM
Subject: RE: [hp8924] Re: for sale


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I HIGHLY recommend a foam-in-place pack for the -8924.  Anything else and Brown will do it to you.  MikeWM4B

# 2215. WTB: 8924C

Yahoo group: hp8924
Date: 2015-10-02 14:16:12 UTC
From: jrskoler@...
Topic: 2215  Message: 2215

Anyone have, or know of someone who has, an 8924C for sale?

I contacted the previous poster, but have not received a response.

Thank you!

# 2216. HP 8922S

Yahoo group: hp8924
Date: 2015-10-03 14:27:48 UTC
From: ku4pt@...
Topic: 2216  Message: 2216

I am looking at a HP 8922S with the option 1 (high stability osc) in it. It seems to be about the same size as the 8924. It seems that it may be able to be used as a service monitor for other than the cellphones to a limited extent.

It is rated form 10 MHz up to 1 GHz. Can frequencies be put in lower than 10 MHz and just not be calibrated as to power like the 8924 ?

Can it be set to generate FM on one port and receive on another for setting up a repeater ?

Does the unit use the same video assembly as the 8924 so that if the video went out in my 8924 I could swap out the assembly ?

The price is inexpensive enough , but I don't need another piece of gear around that weighs 70 pounds if it is not any good at all.

I did download the manual for it and looked through it.

# 2217. Re: [hp8924] HP 8922S

Yahoo group: hp8924
Date: 2015-10-03 14:45:08 UTC
From: Glenn Little WB4UIV
Topic: 2216  Message: 2217

See below.
I have a 8922 and sometimes use it.
There is no component level repair manual.
The best that I have seen is the assembly level repair manual.

73
Glenn
WB4UIV

On 10/3/2015 10:27 AM, ku4pt@... [hp8924] wrote:
>
>
> I am looking at a HP 8922S with the option 1 (high stability osc) in it.
> It seems to be about the same size as the 8924. It seems that it may
> be able to be used as a service monitor for other than the cellphones to
> a limited extent.

You want one with option 006, this is the tracking generator
>
>
> It is rated form 10 MHz up to 1 GHz. Can frequencies be put in lower
> than 10 MHz and just not be calibrated as to power like the 8924 ?

10 MHz is the lower limit

>
>
> Can it be set to generate FM on one port and receive on another for
> setting up a repeater ?

I do not think so, but am not 100% sure
>
>
> Does the unit use the same video assembly as the 8924 so that if the
> video went out in my 8924 I could swap out the assembly ?

Not sure, but, the 8922 was probably used on a production line and left
on 48 hours a day.
All that I have seen have burned displays and are usually dim.
>
>
> The price is inexpensive enough , but I don't need another piece of gear
> around that weighs 70 pounds if it is not any good at all.
>
>
> I did download the manual for it and looked through it.
>

>
>
>

--
---
Glenn Little ARRL Technical Specialist QCWA LM 28417
Amateur Callsign: WB4UIV wb4uiv@... AMSAT LM 2178
QTH: Goose Creek, SC USA (EM92xx) SBE ARRL TAPR
"It is not the class of license that the Amateur holds but the class
of the Amateur that holds the license"
---

# 2218. Re: WTB: 8924C

Yahoo group: hp8924
Date: 2015-10-03 14:50:29 UTC
From: jrskoler@...
Topic: 2215  Message: 2218

Amtronix is out of stock and eBay from a surplus dealer just doesn't give me the confidence needed.

Any suggestions?

# 2219. Re: [hp8924] HP 8922S

Yahoo group: hp8924
Date: 2015-10-03 15:28:38 UTC
From: Robert Atkinson
Topic: 2216  Message: 2219

Hi.The 8922S is NOT the same as the 8924C. It was designed as a GSM telephone test set, not developed from the 8920 analog test set as the 8924 was. It has no analog modulation or demodulation. The base model is  (apart from GSM testing) just a 10MHz to 1GHz CW generator, 25kHz audio generator, 50kHz 'scope, !Ghz counter and apower meter (to 41dBm). A big box for that lot. Option 006 adds a 10MHz to 1GHz spectrum analyser, but even that is limited, e.g. the maximum span is 10MHz (spec says 4MHz).The monitor is the same as the 8924, so is the rotary encoder. Some modules are common but not all. The power supply is completly different. The ones I've seen with the high stability option had a 10811 series OCXO. Other than that they really are a bit of a boat anchor.

Robert G8RPI.

From: "ku4pt@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Saturday, 3 October 2015, 15:27
Subject: [hp8924] HP 8922S

I am looking at a HP 8922S with the option 1 (high stability osc) in it.  It seems to be about the same size as the 8924.  It seems that it may be able to be used as a service monitor for other than the cellphones to a limited extent.
It is rated form 10 MHz up to 1 GHz.  Can frequencies be put in lower than 10 MHz and just not be calibrated as to power like the 8924 ?
Can it be set to generate FM on one port and receive on another for setting up a repeater ?
Does the unit use the same video assembly as the 8924 so that if the video went out in my 8924 I could swap out the assembly ?
The price is inexpensive enough , but I don't need another piece of gear around that weighs 70 pounds if it is not any good at all.
I did download the manual for it and looked through it.

# 2220. Re: [hp8924] HP 8922S

Yahoo group: hp8924
Date: 2015-10-03 17:16:44 UTC
From: Ralph Mowery
Topic: 2216  Message: 2220

Thanks Robert, also to Glenn for the info.
The unit I am looking at does not have the SA option, just the 001 which is the frequency option.
I though it might be designed from the start as a cell phone test set and not the cell test added on like the 8924c was to the 8920.  I may make a low ball offer for it and see what happens.  Too bad this one does not have a SA and the thing weighs more than the 8924c.
73 de ku4pt

From: "Robert Atkinson robert8rpi@... [hp8924]" <hp8924@yahoogroups.com>
To: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
Sent: Saturday, October 3, 2015 11:28 AM
Subject: Re: [hp8924] HP 8922S

<!--

# 2221. Re: [hp8924] HP 8922S

Yahoo group: hp8924
Date: 2015-10-03 19:11:53 UTC
From: robert8rpi@...
Topic: 2216  Message: 2221

The weight is because they have a linear PSU with a big iron core transformer. Without the SA they are hardly worth the shipping cost. I recently sold an 8922M with SA but not the precision reference for about $250.

Robert G8RPI.

# 2222. Re: [hp8924] HP 8922S

Yahoo group: hp8924
Date: 2015-10-03 21:42:57 UTC
From: Ralph Mowery
Topic: 2216  Message: 2222

Because the one I am looking at does not have SA I am thinking about offering about $ 100 for it including shipping to me.  That is about $ 40 less than what he wants.
My thinking is that if the 8924c I have craps out there may be some parts (modules) in it that will go in the 8924c, especially the CRT module.  Was hoping the power supply would also work,but as you say it will not work, that really makes me think it is not even worth the $ 100 I was going to offer.
de ku4pt

From: "robert8rpi@yahoo.co.uk [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Saturday, October 3, 2015 3:11 PM
Subject: Re: [hp8924] HP 8922S

#yiv1752831704 #yiv1752831704 -- #yiv1752831704 .yiv1752831704ygrp-photo-title{clear:both;
font-size:smaller;height:15px;overflow:hidden;text-align:center;width:75px;}#yiv1752831704
div.yiv1752831704ygrp-photo{background-position:center;background-repeat:no-repeat;backgro
und-color:white;border:1px solid black;height:62px;width:62px;}#yiv1752831704
div.yiv1752831704photo-title a, #yiv1752831704 div.yiv1752831704photo-title a:active,
#yiv1752831704 div.yiv1752831704photo-title a:hover, #yiv1752831704
div.yiv1752831704photo-title a:visited {text-decoration:none;}#yiv1752831704
div.yiv1752831704attach-table div.yiv1752831704attach-row {clear:both;}#yiv1752831704
div.yiv1752831704attach-table div.yiv1752831704attach-row div {float:left;}#yiv1752831704
p {clear:both;padding:15px 0 3px 0;overflow:hidden;}#yiv1752831704
div.yiv1752831704ygrp-file {width:30px;}#yiv1752831704 div.yiv1752831704attach-table
div.yiv1752831704attach-row div div a {text-decoration:none;}#yiv1752831704
div.yiv1752831704attach-table div.yiv1752831704attach-row div div span
{font-weight:normal;}#yiv1752831704 div.yiv1752831704ygrp-file-title
{font-weight:bold;}#yiv1752831704 #yiv1752831704 #yiv1752831704 #yiv1752831704
--#yiv1752831704ygrp-mkp {border:1px solid #d8d8d8;font-family:Arial;margin:10px
0;padding:0 10px;}#yiv1752831704 #yiv1752831704ygrp-mkp hr {border:1px solid
#d8d8d8;}#yiv1752831704 #yiv1752831704ygrp-mkp #yiv1752831704hd
{color:#628c2a;font-size:85%;font-weight:700;line-height:122%;margin:10px
0;}#yiv1752831704 #yiv1752831704ygrp-mkp #yiv1752831704ads
{margin-bottom:10px;}#yiv1752831704 #yiv1752831704ygrp-mkp .yiv1752831704ad {padding:0
0;}#yiv1752831704 #yiv1752831704ygrp-mkp .yiv1752831704ad p {margin:0;}#yiv1752831704
#yiv1752831704ygrp-mkp .yiv1752831704ad a
{color:#0000ff;text-decoration:none;}#yiv1752831704

The weight is because they have a linear PSU with a big iron core transformer. Without the SA they are hardly worth the shipping cost. I recently sold an 8922M with SA but not the precision reference for about $250.

Robert G8RPI.

# 2223. Re: [hp8924] HP 8922S

Yahoo group: hp8924
Date: 2015-10-04 13:42:05 UTC
From: willard561@...
Topic: 2216  Message: 2223

Part of the difference between the *922 & 8924 was the IS-95 phones the 8924 was designed to test were a dual mode phone, they had both IS-95 CDMA & the older AMPS functionality in them. AMPS was a FM based analog system so it made sense to base the 8924 on the older 8920's. Where as the GSM phones for the most part never had the analog capability built in.

# 2224. FS: HP 11807E Opt 100 Card

Yahoo group: hp8924
Date: 2015-10-04 17:49:51 UTC
From: jsternmd@...
Topic: 2224  Message: 2224

I have two HO 11807E Opt 100 cards; priced at $50 EACH plus shipping.

Please reply off list to my email address.

thanks

Jerry K1JOS

# 2225. FS: 6 KHz Bandpass Board (OPT 014) for 8920A/B ---NIB

Yahoo group: hp8924
Date: 2015-10-04 17:57:00 UTC
From: jsternmd@...
Topic: 2225  Message: 2225

I sold my 8920B and have a new in box, 6KHz bandpass Filter board for OPT014 that is new in the box - never installed.

$100 plus shipping

Thanks
Jerry K1JOS

# 2226. RE: [hp8924] FS: 6 KHz Bandpass Board (OPT 014) for 8920A/B ---NIB

Yahoo group: hp8924
Date: 2015-10-05 05:07:02 UTC
From: Adam Farson
Topic: 2225  Message: 2226

Hi Jerry,

Will that board work in an 8935?

73, Adam VA7OJ/AB4OJ

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com]
Sent: 4-Oct-15 10:57
To: hp8924@yahoogroups.com
Subject: [hp8924] FS: 6 KHz Bandpass Board (OPT 014) for 8920A/B ---NIB

I sold my 8920B and have a new in box, 6KHz bandpass Filter board for OPT014 that is new in the box - never installed.

$100 plus shipping

Thanks

Jerry K1JOS

# 2227. Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Yahoo group: hp8924
Date: 2015-10-10 20:01:15 UTC
From: jrskoler@...
Topic: 730  Message: 2227

Years later, but I'm just now getting started with an 8924C and would love to see the training video.

I tried the links, but they don't work.

Anyone have a source?

Thank you!

# 2228. Re: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Yahoo group: hp8924
Date: 2015-10-10 20:16:06 UTC
From: eseacord
Topic: 730  Message: 2228

If you still can't find the video, go to /amtronix.com/ as they have
excellent writeups about some of the features of the 8924.
Rix k2avp

On 10/10/2015 4:01 PM, jrskoler@... [hp8924] wrote:
>
>
> Years later, but I'm just now getting started with an 8924C and would
> love to see the training video.
>
> I tried the links, but they don't work.
>
> Anyone have a source?
>
> Thank you!
>

# 2229. Re: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Yahoo group: hp8924
Date: 2015-10-11 01:14:29 UTC
From: Joseph R Skoler
Topic: 730  Message: 2229

I have been searching and am unable to find it anywhere.

If someone has it I could send a TransferBigFiles.com link to transfer it easily to me.

Thanks,

Joseph R. Skoler
Joseph@...

> On Oct 10, 2015, at 4:16 PM, eseacord eseacord@... [hp8924] <hp8924@yahoogroups.com> wrote:
>
> If you still can't find the video, go to amtronix.com as they have excellent writeups about some of the features of the 8924.
> Rix k2avp
>
>> On 10/10/2015 4:01 PM, jrskoler@... [hp8924] wrote:
>>
>>
>> Years later, but I'm just now getting started with an 8924C and would love to see the training video.
>>
>> I tried the links, but they don't work.
>>
>> Anyone have a source?
>>
>> Thank you!
>
>

# 2230. Re: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Yahoo group: hp8924
Date: 2015-10-11 05:24:46 UTC
From: jim
Topic: 730  Message: 2230

I mistakenly removed it from my website, sorry. I've reposted it to my amateur radio site:

http://vvarc.org/files/Hp8920a%20Rf%20Communication%20Set-1.m4v[1]
It's 1.3GB so the download may take awhile

73
jim

On Saturday, October 10, 2015 01:01:15 PM you wrote:

Years later, but I'm just now getting started with an 8924C and would love to see the training
video.

I tried the links, but they don't work.

Anyone have a source?

Thank you!

---
[1] http://vvarc.org/files/Hp8920a%20Rf%20Communication%20Set-1.m4v
[2] https://groups.yahoo.com/neo/groups/hp8924/
info;_ylc=X3oDMTJma2IwNWRkBF9TAzk3MzU5NzE0BGdycElkAzIxODU1MDE4BGdycHNwSW
QDMTcwNTA2MzEwOARzZWMDdnRsBHNsawN2Z2hwBHN0aW1lAzE0NDQ1MDcyNzc-
[3] http://l.yimg.com/ru/static/images/yg/img/email/new_logo/logo-groups-137x15.png
[4] https://info.yahoo.com/privacy/us/yahoo/groups/details.html
[5] mailto:hp8924-unsubscribe@yahoogroups.com?subject=Unsubscribe
[6] https://info.yahoo.com/legal/us/yahoo/utos/terms/

# 2231. Re: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Yahoo group: hp8924
Date: 2015-10-11 13:47:15 UTC
From: John Kernkamp
Topic: 730  Message: 2231

My Windows-7 latest-version Windows Media Player gives no sound, but Free File Viewer does.

Any ideas?

On Sat, Oct 10, 2015 at 11:24 PM, jim jafconsulting@... [hp8924] <hp8924@yahoogroups.com> wrote:

>
>
> I mistakenly removed it from my website, sorry. I've reposted it to my
> amateur radio site:
>
>
>
> http://vvarc.org/files/Hp8920a%20Rf%20Communication%20Set-1.m4v
>
> It's 1.3GB so the download may take awhile
>
>
>
> 73
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> jim
>
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>
> On Saturday, October 10, 2015 01:01:15 PM you wrote:
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>
> Years later, but I'm just now getting started with an 8924C and would love
> to see the training video.
>
>
> I tried the links, but they don't work.
>
>
> Anyone have a source?
>
>
> Thank you!
>

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# 2232. Re: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Yahoo group: hp8924
Date: 2015-10-11 14:37:57 UTC
From: Joseph Skoler
Topic: 730  Message: 2232

Downloaded to my Chromebook and it works (video and audio) just fine -- Thank you!
It also works fine on my Win7 using WMP (audio and video).

Re:  Win7:  You could try the Quicktime player

From: "John Kernkamp wb4yjt@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Sunday, October 11, 2015 9:47 AM
Subject: Re: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

  My Windows-7  latest-version Windows Media Player gives no sound, but Free File Viewer does.

Any ideas?

On Sat, Oct 10, 2015 at 11:24 PM, jim jafconsulting@... [hp8924] <hp8924@yahoogroups.com> wrote:

I mistakenly removed it from my website, sorry. I've reposted it to my amateur radio site: http://vvarc.org/files/Hp8920a%20Rf%20Communication%20Set-1.m4v It's 1.3GB so the download may take awhile 73jim  On Saturday, October 10, 2015 01:01:15 PM you wrote:

Years later, but I'm just now getting started with an 8924C and would love to see the training video.
I tried the links, but they don't work.
Anyone have a source?
Thank you!

# 2233. Re: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Yahoo group: hp8924
Date: 2015-10-11 14:39:46 UTC
From: patrick_mulcahy@...
Topic: 730  Message: 2233

Me too. No audio in Media Player but plays in iTunes. Apparently .m4v is an Apple format.

# 2234. RE: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Yahoo group: hp8924
Date: 2015-10-11 14:42:01 UTC
From: Mike Besemer
Topic: 730  Message: 2234

Works fine with Windows 10 and Media Player.

It’s probably a plug-in issue with Media Player.

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com]
Sent: Sunday, October 11, 2015 10:40 AM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Me too. No audio in Media Player but plays in iTunes. Apparently .m4v is an Apple format.

# 2235. Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Yahoo group: hp8924
Date: 2015-10-11 15:16:41 UTC
From: rhyolite
Topic: 730  Message: 2235

Jim; can you please upload a copy back to the Yahoo file section? I was the one with the original tape. I think you might be the one who digitized it. In any event, I think there was also a CODEC required for Windows to run the MP4?

Sent from Samsung tablet

# 2236. Re: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Yahoo group: hp8924
Date: 2015-10-11 16:52:07 UTC
From: jim
Topic: 730  Message: 2236

No ideas on windows media player; I abandoned Windows 8 years ago and only use Linux now.
I have, however, converted the file to mp4 format and placed it on my website:

http://vvarc.org/files/Hp8920aRfCommunicationSet.mp4

I will try to upload it to the files section of Yahoo shortly.

73
jim

On Sunday, October 11, 2015 07:47:15 AM you wrote:

My Windows-7 latest-version Windows Media Player gives no sound, but Free File Viewer
does.

Any ideas?

On Sat, Oct 10, 2015 at 11:24 PM, jim jafconsulting@verizon.net[1] [hp8924]
<hp8924@yahoogroups.com[2]> wrote:

I mistakenly removed it from my website, sorry. I've reposted it to my amateur radio site:

http://vvarc.org/files/Hp8920a%20Rf%20Communication%20Set-1.m4v[3]
It's 1.3GB so the download may take awhile

73
jim

On Saturday, October 10, 2015 01:01:15 PM you wrote:

Years later, but I'm just now getting started with an 8924C and would love to see the
training
video.

I tried the links, but they don't work.

Anyone have a source?

Thank you!

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[1] mailto:jafconsulting@...
[2] mailto:hp8924@yahoogroups.com
[3] http://vvarc.org/files/Hp8920a%20Rf%20Communication%20Set-1.m4v
[4] https://groups.yahoo.com/neo/groups/hp8924/
info;_ylc=X3oDMTJmNDFhaTh2BF9TAzk3MzU5NzE0BGdycElkAzIxODU1MDE4BGdycHNwSW
QDMTcwNTA2MzEwOARzZWMDdnRsBHNsawN2Z2hwBHN0aW1lAzE0NDQ1NzEyMzc-
[5] http://l.yimg.com/ru/static/images/yg/img/email/new_logo/logo-groups-137x15.png
[6] https://info.yahoo.com/privacy/us/yahoo/groups/details.html

[7] mailto:hp8924-unsubscribe@yahoogroups.com?subject=Unsubscribe
[8] https://info.yahoo.com/legal/us/yahoo/utos/terms/

# 2237. Re: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Yahoo group: hp8924
Date: 2015-10-11 16:58:39 UTC
From: jim
Topic: 730  Message: 2237

Yahoo has a 10 MB upload limit for files. The MP4 version of the 8920a training video is ~1100MB so Yahoo will not let me upload it.

73
jim
ki6njf

On Sunday, October 11, 2015 11:16:41 AM you wrote:

Jim; can you please upload a copy back to the Yahoo file section? I was the one with the original tape. I think you might be the one who digitized it. In any event, I think there was also
a CODEC required for Windows to run the MP4?

Sent from Samsung tablet

---
[1]
[2] https://groups.yahoo.com/neo/groups/hp8924/
info;_ylc=X3oDMTJmZG5zbnM0BF9TAzk3MzU5NzE0BGdycElkAzIxODU1MDE4BGdycHNwSW
QDMTcwNTA2MzEwOARzZWMDdnRsBHNsawN2Z2hwBHN0aW1lAzE0NDQ1NzY1MTg-
[3] http://l.yimg.com/ru/static/images/yg/img/email/new_logo/logo-groups-137x15.png
[4] https://info.yahoo.com/privacy/us/yahoo/groups/details.html
[5] mailto:hp8924-unsubscribe@yahoogroups.com?subject=Unsubscribe
[6] https://info.yahoo.com/legal/us/yahoo/utos/terms/

# 2238. Re: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Yahoo group: hp8924
Date: 2015-10-11 18:11:56 UTC
From: patrick_mulcahy@...
Topic: 730  Message: 2238

I converted it to .mp4 and .wmv and they both play in Media Player. I could host them on my website if anyone is interested.

Pat

# 2239. Re: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Yahoo group: hp8924
Date: 2015-10-11 19:57:16 UTC
From: John Kernkamp
Topic: 730  Message: 2239

That worked - Thanks!

John K.
==========

On Sun, Oct 11, 2015 at 10:52 AM, jim jafconsulting@... [hp8924] <
hp8924@yahoogroups.com> wrote:

>
>
> No ideas on windows media player; I abandoned Windows 8 years ago and only
> use Linux now. I have, however, converted the file to mp4 format and placed
> it on my website:
>
>
>
> http://vvarc.org/files/Hp8920aRfCommunicationSet.mp4
>
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>
> I will try to upload it to the files section of Yahoo shortly.
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> 73
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> jim
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> On Sunday, October 11, 2015 07:47:15 AM you wrote:
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>
> My Windows-7 latest-version Windows Media Player gives no sound, but Free
> File Viewer does.
>
> Any ideas?
>
>
> On Sat, Oct 10, 2015 at 11:24 PM, jim jafconsulting@... [hp8924] <
> hp8924@yahoogroups.com> wrote:
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>

>
> I mistakenly removed it from my website, sorry. I've reposted it to my
> amateur radio site:
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>
> http://vvarc.org/files/Hp8920a%20Rf%20Communication%20Set-1.m4v
>
> It's 1.3GB so the download may take awhile
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> 73
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> jim
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> On Saturday, October 10, 2015 01:01:15 PM you wrote:
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> Years later, but I'm just now getting started with an 8924C and would love
> to see the training video.
>
>
> I tried the links, but they don't work.
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> Anyone have a source?
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> Thank you!
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# 2240. Re: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Yahoo group: hp8924
Date: 2015-10-11 20:00:54 UTC
From: John Kernkamp
Topic: 730  Message: 2240

Yahoo is a piece of crap.
I gave up on them many years ago.

Gmail has no such limitation, and works much better.

On Sun, Oct 11, 2015 at 10:58 AM, jim jafconsulting@... [hp8924] <
hp8924@yahoogroups.com> wrote:

>
>
> Yahoo has a 10 MB upload limit for files. The MP4 version of the 8920a
> training video is ~1100MB so Yahoo will not let me upload it.
>
>
>
> 73
>
> jim
>
> ki6njf
>
>
>
> On Sunday, October 11, 2015 11:16:41 AM you wrote:
>
>
>
> Jim; can you please upload a copy back to the Yahoo file section? I was
> the one with the original tape. I think you might be the one who digitized
> it. In any event, I think there was also a CODEC required for Windows to
> run the MP4?
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> Sent from Samsung tablet
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# 2241. RE: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Yahoo group: hp8924
Date: 2015-10-11 20:03:41 UTC
From: Mike Besemer
Topic: 730  Message: 2241

I’m always amazed when someone complains about something they get for free.

Only in America. No wonder Obama and the libs are killing the rest of us who actually WORK for a living

Mike
WM4B

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com]
Sent: Sunday, October 11, 2015 4:01 PM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Yahoo is a piece of crap.
I gave up on them many years ago.
Gmail has no such limitation, and works much better.

On Sun, Oct 11, 2015 at 10:58 AM, jim jafconsulting@... [hp8924] <hp8924@yahoogroups.com> wrote:

Yahoo has a 10 MB upload limit for files. The MP4 version of the 8920a training video is ~1100MB so Yahoo will not let me upload it.

73
jim
ki6njf

On Sunday, October 11, 2015 11:16:41 AM you wrote:

Jim; can you please upload a copy back to the Yahoo file section? I was the one with the original tape. I think you might be the one who digitized it. In any event, I think there was also a CODEC required for Windows to run the MP4?

Sent from Samsung tablet

# 2242. RE: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Yahoo group: hp8924
Date: 2015-10-11 20:42:37 UTC
From: wb6dgn_tom@...
Topic: 730  Message: 2242

Mike,
With all due respect, yahoo is hardly free! I pay a goodly amount to ATT for my internet connection each month and what do they supply for an ISP? That's right, yahoo! Believe me, there's NOTHING free about it and I won't get into the quality of the service!!
Tom

# 2243. RE: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Yahoo group: hp8924
Date: 2015-10-11 21:07:14 UTC
From: Mike Besemer
Topic: 730  Message: 2243

Tom,

That’s true (and I didn’t mean to come off as such a hard-ass), but you do (I suspect) have a choice in your ISP.

To the group owner, it costs nothing to host a group on Yahoo. They rely on embedded ads, etc. to keep the lights on and the bits flowing – the group itself costs nothing to the user. (In other words, you’d get the exact same service if you had Brand X Internet in your home.)

My point, is that it amazes me that we – as Americans – would bitch if we were hung with a new rope (to borrow a phrase from my dear, departed dad).

‘Nuff said; let’s go tune some duplexers or something!

Mike
WM4B

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com]
Sent: Sunday, October 11, 2015 4:43 PM
To: hp8924@yahoogroups.com
Subject: RE: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Mike,
With all due respect, yahoo is hardly free! I pay a goodly amount to ATT for my internet connection each month and what do they supply for an ISP? That's right, yahoo! Believe me, there's NOTHING free about it and I won't get into the quality of the service!!
Tom

# 2244. OT OT OT HP8920A/B Training Tape on VHS UPDATE Number 2!

Yahoo group: hp8924
Date: 2015-10-17 01:36:19 UTC
From: wb6dgn_tom@...
Topic: 730  Message: 2244

Mike,
I took no offense at your comment and I don't think there was anything wrong with it. I just wanted to point out that, in my opinion, yahoo is not the benevolent provider that some people think it is.
Much as I'd like to vent further about yahoo, this is not the place so I'll leave it at that.

# 2245. RE: [hp8924] OT HP8920A/B Training Tape on VHS UPDATE Number 2!

Yahoo group: hp8924
Date: 2015-10-17 03:57:06 UTC
From: Adam Farson
Topic: 730  Message: 2245

Hi Tom,

Do you mean you don’t like the “Queen of the Night”?

73, Adam VA7OJ/AB4OJ

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com]
Sent: 16-Oct-15 18:36
To: hp8924@yahoogroups.com
Subject: [hp8924] OT OT OT HP8920A/B Training Tape on VHS UPDATE Number 2!

Mike,
I took no offense at your comment and I don't think there was anything wrong with it. I just wanted to point out that, in my opinion, yahoo is not the benevolent provider that some people think it is.
Much as I'd like to vent further about yahoo, this is not the place so I'll leave it at that.

# 2246. 8924C FM Measurement

Yahoo group: hp8924
Date: 2015-10-17 18:19:48 UTC
From: wb4yjt@...
Topic: 2246  Message: 2246

I was doing calibration tests on some of my test gear today,
using Bessel null techniques to obtain accurate deviation measurements.

My HP 8901 tested fine, as did my Motorola 2001d.

But, the 8924C read almost 20% higher than it should have.

I took a look at the various filter settings, and they seemed OK, -
HP at 50, LP at 15, and IF at 15.

But I decided to try a different setting for the IF filter.

It was set to 15 KHz, and I switched it to 230 KHz.

Imagine my surprise when the deviation then read correctly!

Anybody have any comments on this?

# 2247. Re: [hp8924] 8924C FM Measurement

Yahoo group: hp8924
Date: 2015-10-17 20:24:00 UTC
From: Ralph Mowery
Topic: 2246  Message: 2247

I have not noticed that, but seems to me that where you set the peak, peak +- and several others there is a RMS and that gave me different readings than the others.'The 750 us (think that is correct with out looking) deemphasas may be set wrong also.

From: "wb4yjt@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Saturday, October 17, 2015 2:19 PM
Subject: [hp8924] 8924C FM Measurement

<!--#yiv9721810509 #yiv9721810509 .yiv9721810509ygrp-photo-title{clear:both;font-size:smaller;height:15px;overflow:hidden;text-align:center;width:75px;}#yiv9721810509 div.yiv9721810509ygrp-photo{background-position:center;background-repeat:no-repeat;background-color:white;border:1px solid black;height:62px;width:62px;}#yiv9721810509 div.yiv9721810509photo-title a, #yiv9721810509 div.yiv9721810509photo-title a:active, #yiv9721810509 div.yiv9721810509photo-title a:hover, #yiv9721810509 div.yiv9721810509photo-title a:visited {text-decoration:none;}#yiv9721810509 div.yiv9721810509attach-table div.yiv9721810509attach-row {clear:both;}#yiv9721810509 div.yiv9721810509attach-table div.yiv9721810509attach-row div {float:left;}#yiv9721810509 p {clear:both;padding:15px 0 3px 0;overflow:hidden;}#yiv9721810509 div.yiv9721810509ygrp-file {width:30px;}#yiv9721810509 div.yiv9721810509attach-table div.yiv9721810509attach-row div div a {text-decoration:none;}#yiv9721810509 div.yiv9721810509attach-table div.yiv9721810509attach-row div div span {font-weight:normal;}#yiv9721810509 div.yiv9721810509ygrp-file-title {font-weight:bold;}#yiv9721810509 --> <!--#yiv9721810509 #yiv9721810509ygrp-mkp {border:1px solid #d8d8d8;font-family:Arial;margin:10px 0;padding:0 10px;}#yiv9721810509 #yiv9721810509ygrp-mkp hr {border:1px solid #d8d8d8;}#yiv9721810509 #yiv9721810509ygrp-mkp #yiv9721810509hd {color:#628c2a;font-size:85%;font-weight:700;line-height:122%;margin:10px 0;}#yiv9721810509 #yiv9721810509ygrp-mkp #yiv9721810509ads {margin-bottom:10px;}#yiv9721810509 #yiv9721810509ygrp-mkp .yiv9721810509ad {padding:0 0;}#yiv9721810509 #yiv9721810509ygrp-mkp .yiv9721810509ad p {margin:0;}#yiv9721810509 #yiv9721810509ygrp-mkp .yiv9721810509ad a {color:#0000ff;text-decoration:none;}-->

I was doing calibration tests on some of my test gear today,
using Bessel null techniques to obtain accurate deviation measurements.

My HP 8901 tested fine, as did my Motorola 2001d.

But, the 8924C read almost 20% higher than it should have.

I took a look at the various filter settings, and they seemed OK, -
HP at 50, LP at 15, and IF at 15.

But I decided to try a different setting for the IF filter.

It was set to 15 KHz, and I switched it to 230 KHz.

Imagine my surprise when the deviation then read correctly!

Anybody have any comments on this?

# 2248. Re: [hp8924] 8924C FM Measurement

Yahoo group: hp8924
Date: 2015-10-17 23:00:00 UTC
From: Peter Lowmass
Topic: 2246  Message: 2248

Hi.

De-emphasis needs to be off for all your cal testing.

Regards.
Peter.

On 18 Oct 2015, at 4:24 AM, Ralph Mowery ku4pt@... [hp8924] <hp8924@yahoogroups.com> wrote:

I have not noticed that, but seems to me that where you set the peak, peak +- and several others there is a RMS and that gave me different readings than the others.
'The 750 us (think that is correct with out looking) deemphasas may be set wrong also.

From: "wb4yjt@gmail.com [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Saturday, October 17, 2015 2:19 PM
Subject: [hp8924] 8924C FM Measurement

I was doing calibration tests on some of my test gear today,
using Bessel null techniques to obtain accurate deviation measurements.

My HP 8901 tested fine, as did my Motorola 2001d.

But, the 8924C read almost 20% higher than it should have.

I took a look at the various filter settings, and they seemed OK, -
HP at 50, LP at 15, and IF at 15.

But I decided to try a different setting for the IF filter.

It was set to 15 KHz, and I switched it to 230 KHz.

Imagine my surprise when the deviation then read correctly!

Anybody have any comments on this?

# 2249. Fwd: 8924C FM Measurement

Yahoo group: hp8924
Date: 2015-10-17 23:10:42 UTC
From: Peter Lowmass
Topic: 2249  Message: 2249

Begin forwarded message:

From: Peter Lowmass <plowmass@...>
Date: 18 October 2015 at 6:56:59 AM AWST
To: wb4yjt@...
Subject: Re: 8924C FM Measurement

Hi.

All of the calibration tests on the 8920/24 units are done at the 230 setting.

Regards,

Peter.

# 2250. hp 8922s again

Yahoo group: hp8924
Date: 2015-10-20 16:22:58 UTC
From: ku4pt@...
Topic: 2250  Message: 2250

I bought a 8922 partly because I understand the crt unit is the same as my 8924c just in case it ever went out.
Also to check it against both units to see how close they are to each other. Only about 30 hz off at 900 MHz between the two units. Not bad as it is hard to tell how long it has been from the last calibration.

One thing that I ran across it the deviation readout on the 8922s seems to be stuck in the RMS mode. The manual says it should have all the functions of the 8924c such as sqrt plus, minus, peak and so on. I have looked all over the thing and can not fine out where to change it on the 8922s.

Also it is suppose to have several filters such as low pass like the 8924, but I don't seem to be able to find where to set them either.

Can someone point out where to get to them ?

This unit only has the high accuracy for frequency option installed in it.

# 2251. Fw: new message

Yahoo group: hp8924
Date: 2015-10-26 18:30:16 UTC
From: <mike@...>
Topic: 2251  Message: 2251

Hey!

New message, please read <http://theartistsontheblock.com/ye.php?8403>

mike@...

# 2252. Re: [hp8924] 8924C FM Measurement

Yahoo group: hp8924
Date: 2015-10-27 04:08:35 UTC
From: willcoele@...
Topic: 2246  Message: 2252

When measuring deviation, I the use oscilloscope frequency peak to peak reading.

# 2253. RE: [hp8924] 8924C FM Measurement

Yahoo group: hp8924
Date: 2015-10-27 05:41:15 UTC
From: Adam Farson
Topic: 2246  Message: 2253

If the instrument has a spectrum analyser option, one can also use the Bessel null method. When the modulating frequency fM = 1 kHz, the carrier will null out when the peak deviation is 2.4 kHz.

On the 8935, 8921A, 8920A/B Opt. 102 etc., set SPAN = 5 or 10 kHz to select 300 Hz RBW (the minimum RBW value).

73, Adam VA7OJ/AB4OJ

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com]
Sent: 26-Oct-15 21:09
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] 8924C FM Measurement

When measuring deviation, I the use oscilloscope frequency peak to peak reading.

# 2254. Re: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Yahoo group: hp8924
Date: 2015-11-02 20:10:46 UTC
From: kd2maj@...
Topic: 730  Message: 2254

Pat

Did we ever come up with a host for the mp4 for the training tapes?

Let me know - I am a newbee to the HP8924c and would love the training.

Thank you!

KD2MAJ

# 2255. Re: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Yahoo group: hp8924
Date: 2015-11-02 20:33:02 UTC
From: Patrick Mulcahy
Topic: 730  Message: 2255

I offered but no one responded. If you would like me to put it up, I can do it this afternoon.
R,
Pat

# 2256. Re: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Yahoo group: hp8924
Date: 2015-11-02 20:46:38 UTC
From: jim
Topic: 730  Message: 2256

The training video is at: http://vvarc.org/files/[1]

On Monday, November 02, 2015 12:10:46 PM you wrote:

---
Posted by: kd2maj@...
---
--
73s
jim
KI6NJF

---
[1] http://vvarc.org/files/

# 2257. Re: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Yahoo group: hp8924
Date: 2015-11-02 21:09:57 UTC
From: jdluke6545@...
Topic: 730  Message: 2257

I would be interested in seeing these videos.
Thanks!

Sent from my phone

> On Nov 2, 2015, at 2:33 PM, Patrick Mulcahy patrick_mulcahy@... [hp8924] <hp8924@yahoogroups.com> wrote:
>
> I offered but no one responded. If you would like me to put it up, I can do it this afternoon.
>
> R,
>
> Pat
>
>

# 2258. Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Yahoo group: hp8924
Date: 2015-11-02 21:22:00 UTC
From: Hank Riley
Topic: 730  Message: 2258

I watched it and it had very good content. Thanks for those that made it possible.

Not wanting to seem ungrateful, but might it be possible to contemplate, with bigger and bigger files becoming more common, and PC technology advancing so fast, for a higher quality digitization of the video to be produced? As an option alongside the 1 Gig

file that we have?

Maybe even a distribution of a highest grade DVD clone of the original VHS source?

I realize the VHS available as the "master" may not be the greatest to begin with.

Hank

# 2259. Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Yahoo group: hp8924
Date: 2015-11-03 15:19:47 UTC
From: patrick_mulcahy@...
Topic: 730  Message: 2259

I have formated a smaller-sized version for those that are interested using a .WMV format at 460MB.

Index of /HP8924C http://www.fathermulcahy.net/HP8924C/

http://www.fathermulcahy.net/HP8924C/

Index of /HP8924C http://www.fathermulcahy.net/HP8924C/ Index of /HP8924C Name Last modified Size Description Parent Directory - Hp8920a Rf Communica..> 02-Nov-...

View on www.fathermulcahy.net http://www.fathermulcahy.net/HP8924C/
Preview by Yahoo

<http://www.fathermulcahy.net/HP8924C/>

# 2260. Re: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Yahoo group: hp8924
Date: 2015-11-04 14:47:35 UTC
From: Cristian Balan
Topic: 730  Message: 2260

Pat
I downloaded the WMV file and viewed it in Windows Media Player.The audio is there and a picture of a 70's guy by the service monitor.
There is no video showing any of the steps.
Any chance you can take a look at it?

Thanks!
Cristian BalanKD2MAJ

From: "patrick_mulcahy@yahoo.com [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Tuesday, November 3, 2015 10:19 AM
Subject: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

I have formated a smaller-sized version for those that are interested using a .WMV format at 460MB.

Index of /HP8924C
| |
| | | | Index of /HP8924C Index of /HP8924C Name Last modified Size Description Parent Directory - Hp8920a Rf Communica..> 02-Nov-... | |
| View on www.fathermulcahy.net | Preview by Yahoo |
| |

<http://www.fathermulcahy.net/HP8924C/>

# 2261. Re: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Yahoo group: hp8924
Date: 2015-11-04 17:41:20 UTC
From: Ralph Mowery
Topic: 730  Message: 2261

It plays fine for me using windows xp and windows media player.  Also used the program VLC Media Player and plays good.

From: "Cristian Balan kd2maj@... [hp8924]" <hp8924@yahoogroups.com>
To: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
Sent: Wednesday, November 4, 2015 9:47 AM
Subject: Re: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

<!--

# 2262. Re: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Yahoo group: hp8924
Date: 2015-11-04 17:54:50 UTC
From: Cristian Balan
Topic: 730  Message: 2262

Yep!  Got it to work fine in VLC.  I guess Windows Media Player sucks just like IE.
KD2MAJ

From: "Ralph Mowery ku4pt@... [hp8924]" <hp8924@yahoogroups.com>
To: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
Sent: Wednesday, November 4, 2015 12:41 PM
Subject: Re: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

  It plays fine for me using windows xp and windows media player.  Also used the program VLC Media Player and plays good.

From: "Cristian Balan kd2maj@... [hp8924]" <hp8924@yahoogroups.com>
To: "hp8924@...m" <hp8924@yahoogroups.com>
Sent: Wednesday, November 4, 2015 9:47 AM
Subject: Re: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Pat
I downloaded the WMV file and viewed it in Windows Media Player.The audio is there and a picture of a 70's guy by the service monitor.
There is no video showing any of the steps.
Any chance you can take a look at it?

# 2263. Re: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Yahoo group: hp8924
Date: 2015-11-04 19:00:25 UTC
From: Ralph Mowery
Topic: 730  Message: 2263

What version of widows are you using ?
I was using Windows XP.  I bought a used computer with Win 7 Pro on in about 2 months ago and did not run it but a day or two to see if the computer was ok, then loaded Win 10 on it.  Many of the older XP programs don't seem to work .  Some have to be loaded in their own directory instead of the program directory.  One of the dongles that plugs in the usb port and  allows the computer to be a TV set will show the video, but no sound.
 From what little I have  researched Win 10, there seems to be a lot of sound issues with it and older programs.
I seem to be getting a stack of computers just to keep things going.  Almost have to decide which computer to run a program on.  Needed some old laptops to use the PCMCIA card of the 8924c I have.  Also needed them to program some old Midland  and GE transceivers.  I did skip Win 7 and 8, but thought  while I could upgrade a Win 7 computer for free, I would go for Win 10.  Got caught one year when the tax program would not run under under win 98 and had to go to XP.
I think I have  computers on Dos 6 and WFWG, Win 98, XP and now Win 10 just to run all the different programs and interfaces.  Just hope I don't need the Win 7 or 8 versions , or will be looking at another computer.  Then there is the Android system on the tablet and smart phone. I did get rid of my TRS 80 years ago.  Sure hope I don't have to go back and need that one.
Buying a Dell with 3.3 gb speed and 8 meg of memory and large hard drive for $ 140 off ebay and the Win 7 pro disc and updating to Win 10 for free seemed like a good deal to stay up to date..  I am not into gaming or anything that I need all that much  power for.

From: "Cristian Balan kd2maj@... [hp8924]" <hp8924@yahoogroups.com>
To: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
Sent: Wednesday, November 4, 2015 12:54 PM
Subject: Re: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

# 2264. Re: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Yahoo group: hp8924
Date: 2015-11-05 05:42:31 UTC
From: Patrick Mulcahy
Topic: 730  Message: 2264

I downloaded it on my Win 7 machine and it worked fine in Media Player.

From: "Cristian Balan kd2maj@... [hp8924]" <hp8924@...m>
To: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
Sent: Wednesday, November 4, 2015 6:47 AM
Subject: Re: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Pat
I downloaded the WMV file and viewed it in Windows Media Player.The audio is there and a picture of a 70's guy by the service monitor.
There is no video showing any of the steps.
Any chance you can take a look at it?

Thanks!
Cristian BalanKD2MAJ

From: "patrick_mulcahy@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Tuesday, November 3, 2015 10:19 AM
Subject: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

I have formated a smaller-sized version for those that are interested using a .WMV format at 460MB.

Index of /HP8924C
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| View on www.fathermulcahy.net | Preview by Yahoo |
| |

<http://www.fathermulcahy.net/HP8924C/>

# 2265. Re: [hp8924] Re: HP8920A/B Training Tape on VHS UPDATE Number 2!

Yahoo group: hp8924
Date: 2015-11-05 18:14:04 UTC
From: rhyolite@...
Topic: 730  Message: 2265

Working fine on WIN XP and Windows Media Player. Thanks!

# 2266. Video Monitor

Yahoo group: hp8924
Date: 2015-12-09 23:15:29 UTC
From: wallydoc@...
Topic: 129  Message: 2266

Has anyone used one of the converters available on e bay to use a modern LCD monitor with HP equipment that produces a 19.2kHz video output?
The converters on e bay are really meant for the old video games, I think. 15kHz
Any suggestions?
There are some old posts on this topic, but they appear inconclusive.
Wally KC9INK

# 2267. Re: [hp8924] Video Monitor

Yahoo group: hp8924
Date: 2015-12-10 01:28:44 UTC
From: clif@avvid.com
Topic: 129  Message: 2267

I have one of the boxes shown below. It's abt 4 years old and works daily without a hitch. It was well over $200 when I bought it. It's puts out a nice green screen on a VGA monitor.

http://www.ebay.com/sch/i.html?_from=R40&_trksid=p2055845.m570.l1313.TR10.TRC0.A0.H0.Xxvga+box.TRS0&_nkw=xvga+box&_sacat=0

Clif Holland KA5IPF
www.avvid.com

----- Original Message -----

From: "wallydoc@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Wednesday, December 9, 2015 5:15:29 PM
Subject: [hp8924] Video Monitor

Has anyone used one of the converters available on e bay to use a modern LCD monitor with HP equipment that produces a 19.2kHz video output?

The converters on e bay are really meant for the old video games, I think. 15kHz

Any suggestions?

There are some old posts on this topic, but they appear inconclusive.

Wally KC9INK

# 2268. Re: [hp8924] Video Monitor

Yahoo group: hp8924
Date: 2015-12-10 01:31:26 UTC
From: clif@avvid.com
Topic: 129  Message: 2268

It's on an 8920A but has the same oddball rate, 19.2

Clif Holland KA5IPF
www.avvid.com

----- Original Message -----

From: "'clif@...' clif@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Wednesday, December 9, 2015 7:28:44 PM
Subject: Re: [hp8924] Video Monitor

I have one of the boxes shown below. It's abt 4 years old and works daily without a hitch. It was well over $200 when I bought it. It's puts out a nice green screen on a VGA monitor.

http://www.ebay.com/sch/i.html?_from=R40&_trksid=p2055845.m570.l1313.TR10.TRC0.A0.H0.Xxvga+box.TRS0&_nkw=xvga+box&_sacat=0

Clif Holland KA5IPF
www.avvid.com

----- Original Message -----

From: "wallydoc@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Wednesday, December 9, 2015 5:15:29 PM
Subject: [hp8924] Video Monitor

Has anyone used one of the converters available on e bay to use a modern LCD monitor with HP equipment that produces a 19.2kHz video output?

The converters on e bay are really meant for the old video games, I think. 15kHz

Any suggestions?

There are some old posts on this topic, but they appear inconclusive.

Wally KC9INK

# 2269. Re: [hp8924] Video Monitor

Yahoo group: hp8924
Date: 2015-12-10 01:39:55 UTC
From: Pedro Castillo
Topic: 129  Message: 2269

I use this unit:

http://www.moncotech.com/cnc.php

It works very well everyday. Hope this helps.

Pete.

Enviado desde mi iPhone

> El 9 dic 2015, a las 7:31 p.m., 'clif@...' clif@... [hp8924] <hp8924@yahoogroups.com> escribió:
>
> It's on an 8920A but has the same oddball rate, 19.2
>
> Clif Holland KA5IPF
> www.avvid.com
>
>
> From: "'clif@...' clif@... [hp8924]" <hp8924@yahoogroups.com>
> To: hp8924@yahoogroups.com
> Sent: Wednesday, December 9, 2015 7:28:44 PM
> Subject: Re: [hp8924] Video Monitor
>
>
> I have one of the boxes shown below. It's abt 4 years old and works daily without a hitch. It was well over $200 when I bought it. It's puts out a nice green screen on a VGA monitor.
>
> http://www.ebay.com/sch/i.html?_from=R40&_trksid=p2055845.m570.l1313.TR10.TRC0.A0.H0.Xxvga+box.TRS0&_nkw=xvga+box&_sacat=0
>
> Clif Holland KA5IPF
> www.avvid.com
>
>
> From: "wallydoc@... [hp8924]" <hp8924@yahoogroups.com>
> To: hp8924@yahoogroups.com
> Sent: Wednesday, December 9, 2015 5:15:29 PM
> Subject: [hp8924] Video Monitor
>
>
> Has anyone used one of the converters available on e bay to use a modern LCD monitor with HP equipment that produces a 19.2kHz video output?
>
> The converters on e bay are really meant for the old video games, I think. 15kHz

>
> Any suggestions?
>
> There are some old posts on this topic, but they appear inconclusive.
>
> Wally KC9INK
>
>
>
>
>
>

# 2270. Re: [hp8924] Video Monitor

Yahoo group: hp8924
Date: 2015-12-10 07:20:05 UTC
From: Robert Atkinson
Topic: 129  Message: 2270

---
On Wed, 9/12/15, wallydoc@yahoo.com [hp8924] <hp8924@yahoogroups.com> wrote:

Subject: [hp8924] Video Monitor
To: hp8924@yahoogroups.com
Date: Wednesday, 9 December, 2015, 23:15

Hi Wally,
If you don't mind a bit of construction, the Gonbes converters on ebay work well for less money. The GBS-8200 is about $25
(the nearly identical 8220 will drive two mointiors) and works well. You need to add a sync separator (LM1881 or a comparator), a couple of resistors , case and powersupply.
I've done a couple and they work well. You can get a picture without the exra components, but it's not stable.

Robert G8RPI.

Has anyone used one of the converters
available on e bay to use a modern LCD monitor with HP
equipment that produces a 19.2kHz video output?The
converters on e bay are really meant for the old video
games, I think. 15kHzAny suggestions?There are
some old posts on this topic, but they appear
inconclusive.Wally KC9INK

# 2271. Re: [hp8924] Video Monitor

Yahoo group: hp8924
Date: 2015-12-10 15:49:13 UTC
From: Dave Trainor
Topic: 129  Message: 2271

I also use one of these about 3 yr now and it works very well, no complaints and are it puts out a nice green screen on a VGA monitor. Much larger in size than the bill in and easier to view by far from a couple feet away.

Thanks,
David Trainor

From: "hp8924@yahoogroups.com<mailto:hp8924@yahoogroups.com>"
<hp8924@yahoogroups.com<mailto:hp8924@yahoogroups.com>> on behalf of
"hp8924@yahoogroups.com<mailto:hp8924@yahoogroups.com>"
<hp8924@yahoogroups.com<mailto:hp8924@yahoogroups.com>>
Reply-To: "hp8924@yahoogroups.com<mailto:hp8924@yahoogroups.com>"
<hp8924@yahoogroups.com<mailto:hp8924@yahoogroups.com>>
Date: Wednesday, December 9, 2015 at 8:28 PM
To: "hp8924@yahoogroups.com<mailto:hp8924@yahoogroups.com>"
<hp8924@yahoogroups.com<mailto:hp8924@yahoogroups.com>>
Subject: Re: [hp8924] Video Monitor

I have one of the boxes shown below. It's abt 4 years old and works daily without a hitch. It was well over $200 when I bought it. It's puts out a nice green screen on a VGA monitor.

http://www.ebay.com/sch/i.html?_from=R40&_trksid=p2055845.m570.l1313.TR10.TRC0.A0.H0.Xxvga+box.TRS0&_nkw=xvga+box&_sacat=0

Clif Holland KA5IPF
www.avvid.com

---
From: "wallydoc@...<mailto:wallydoc@...> [hp8924]"
<hp8924@yahoogroups.com<mailto:hp8924@yahoogroups.com>>
To: hp8924@yahoogroups.com<mailto:hp8924@yahoogroups.com>
Sent: Wednesday, December 9, 2015 5:15:29 PM
Subject: [hp8924] Video Monitor

Has anyone used one of the converters available on e bay to use a modern LCD monitor with HP equipment that produces a 19.2kHz video output?

The converters on e bay are really meant for the old video games, I think. 15kHz

Any suggestions?

There are some old posts on this topic, but they appear inconclusive.

Wally KC9INK

--
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spam.<http://h0stname/cgi-bin/learn-msg.cgi?id=5B78927FFB.1FAA7>

# 2272. Re: [hp8924] Video Monitor

Yahoo group: hp8924
Date: 2015-12-10 19:51:02 UTC
From: W Private
Topic: 129  Message: 2272

Thanks to allSo what I need is the XVGA box and a cable that goes from the mini D connector to BNC connectors and connect the Green BNC to the Service Monitor?Is that how it goes?Any experience with the cheap boards advertised for Pacman type games?Thanks again Wally KC9INK

On Thursday, December 10, 2015 10:49 AM, "Dave Trainor dave@... [hp8924]" <hp8924@yahoogroups.com> wrote:

I also use one of these about 3 yr now and it works very well, no complaints and are it puts out a nice green screen on a VGA monitor. Much larger in size than the bill in and easier to view by far from a couple feet away.
Thanks,David Trainor

From: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com> on behalf of "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
Reply-To: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
Date: Wednesday, December 9, 2015 at 8:28 PM
To: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
Subject: Re: [hp8924] Video Monitor

I have one of the boxes shown below. It's abt 4 years old and works daily without a hitch. It was well over $200 when I bought it. It's puts out a nice green screen on a VGA monitor.

http://www.ebay.com/sch/i.html?_from=R40&_trksid=p2055845.m570.l1313.TR10.TRC0.A0.H0.Xxvga+box.TRS0&_nkw=xvga+box&_sacat=0

Clif Holland KA5IPF
www.avvid.com

From: "wallydoc@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Wednesday, December 9, 2015 5:15:29 PM
Subject: [hp8924] Video Monitor

Has anyone used one of the converters available on e bay to use a modern LCD monitor with HP equipment that produces a 19.2kHz video output?The converters on e bay are really meant for the old video games, I think. 15kHzAny suggestions?There are some old posts on this topic, but they appear inconclusive.Wally KC9INK

--
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# 2273. Re: [hp8924] Video Monitor

Yahoo group: hp8924
Date: 2015-12-10 20:54:33 UTC
From: clif@...
Topic: 129  Message: 2273

I saw all the cheapo game adapters and did some searching on what it would take to make it work. At the time there were several people adapting them but each had a different approach and I couldn't get a definitive answer on what to do. I use it in my business and don't have time to tinker around to save a little money so I bought the one made to work with the 8920A. I was a little nervous about it but it all worked out.

# 2274. Re: [hp8924] Video Monitor

Yahoo group: hp8924
Date: 2015-12-10 21:18:45 UTC
From: Robert Atkinson
Topic: 129  Message: 2274

Hi Wally,I'm not sure exacly what box Clif has used, but the ones that come up on the link seem to be just a boxed version of the GBS8200 board. From the published specification they need separate sync so not sure how you would connect them to a 892x. I found with the GBS-8200 that you could just connect the C-sync input  in parallel with the green video input (with a blocking capacitor) this gave a picure but was not stable.The choice is how much work you want to do. A "plug and play" solution will cost more. I'd be happy to sell you a converter and  leads for $150 including shipping. This would be a boxed up GBS8900 with LM1881 and all you need to connect to a 892x and VGA monitor.
Robert G8RPI.

From: "W Private wallydoc@yahoo.com [hp8924]" <hp8924@yahoogroups.com>
To: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
Sent: Thursday, 10 December 2015, 19:51
Subject: Re: [hp8924] Video Monitor

  Thanks to allSo what I need is the XVGA box and a cable that goes from the mini D connector to BNC connectors and connect the Green BNC to the Service Monitor?Is that how it goes?Any experience with the cheap boards advertised for Pacman type games?Thanks again
Wally KC9INK

On Thursday, December 10, 2015 10:49 AM, "Dave Trainor dave@... [hp8924]" <hp8924@yahoogroups.com> wrote:

  I also use one of these about 3 yr now and it works very well, no complaints and are it puts out a nice green screen on a VGA monitor. Much larger in size than the bill in and easier to view by far from a couple feet away.
Thanks,David Trainor

From: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com> on behalf of "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
Reply-To: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
Date: Wednesday, December 9, 2015 at 8:28 PM
To: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
Subject: Re: [hp8924] Video Monitor

 I have one of the boxes shown below. It's abt 4 years old and works daily without a hitch. It was well over $200 when I bought it. It's puts out a nice green screen on a VGA monitor.

http://www.ebay.com/sch/i.html?_from=R40&_trksid=p2055845.m570.l1313.TR10.TRC0.A0.H0.Xxvga+box.TRS0&_nkw=xvga+box&_sacat=0

Clif Holland KA5IPF
www.avvid.com

From: "wallydoc@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Wednesday, December 9, 2015 5:15:29 PM

Subject: [hp8924] Video Monitor

Has anyone used one of the converters available on e bay to use a modern LCD monitor with HP equipment that produces a 19.2kHz video output?The converters on e bay are really meant for the old video games, I think. 15kHzAny suggestions?There are some old posts on this topic, but they appear inconclusive.Wally KC9INK

--
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# 2275. Re: [hp8924] Video Monitor

Yahoo group: hp8924
Date: 2015-12-10 22:05:18 UTC
From: clif@...
Topic: 129  Message: 2275

I don't know where the confusion is? I use the EXACT box shown in the Ebay listing I posted. On the 8920 there is a BNC "T" hooked to the CRT output. The 2 BNC cables go to H/CS and G/Y inputs on the Xvga Box. The monitor plugs into the VGA output. A wall wart supplies power. That's it. It should come with instructions on the setup if not e-mail me and I can give them to you.

# 2276. Re: [hp8924] HP8920A Help

Yahoo group: hp8924
Date: 2015-12-10 22:11:48 UTC
From: clif@...
Topic: 1969  Message: 2276

You have the alcohols backwards. Isopropyl contains water. Plain old rubbing alcohol that is 80% is 20% water.

# 2277. Re: [hp8924] Video Monitor

Yahoo group: hp8924
Date: 2015-12-11 07:28:23 UTC
From: Robert Atkinson
Topic: 129  Message: 2277

Hi Clif,

The 982x Video is 19.2 kHz composite video and sync Neither the GBS-8200 bare board or cased 8219 are documented as supporting composite sync and video. Your connection of the 892x output to the converter video and combined sync inputs in parallel, while unconventional obviously works better with the 8219 than the 8200 I tried.

Robert G8RPI

#----------
On Thu, 10/12/15, clif@... [hp8924] <hp8924@yahoogroups.com> wrote:

Subject: Re: [hp8924] Video Monitor
To: hp8924@yahoogroups.com
Date: Thursday, 10 December, 2015, 22:05

I don't know where the confusion is? I use the
EXACT box shown in the Ebay listing I posted. On the 8920
there is a BNC "T" hooked to the CRT output. The 2
BNC cables go to H/CS and G/Y inputs on the Xvga Box. The
monitor plugs into the VGA output. A wall wart supplies
power. That's it. It should come with instructions on
the setup if not e-mail me and I can give them to you.

# 2278. [hp8924] Video Monitor

Yahoo group: hp8924
Date: 2015-12-11 14:20:01 UTC
From: clif@avvid.com
Topic: 129  Message: 2278

The unit I have when I bought it was purpose built for the 8920 series. At least that's the way it was advertised. The company I bought it from was the only supplier. I looked for an alternative that was cheaper but it wasn't to be found. Have you considered it may not have one of the generic game board converters but a purpose built unit? I was surprised to see so many on Ebay now and at a better price.

Clif Holland KA5IPF
www.avvid.com

# 2279. Re: [hp8924] Video Monitor

Yahoo group: hp8924
Date: 2015-12-11 17:34:46 UTC
From: Robert Atkinson
Topic: 129  Message: 2279

Hi Clif,Well most of the units on ebay are not being sold for 892x displays :-)
I wonder if the seller modified it by adding a sync separator to the combined sync input? I would have my doubts about a  unit bought on ebay working on a 892x unless the seller specifically says it will. That leaves the expensive "industrial" converters of DIY mods.
Robert G8RPI.

From: "'clif@...' clif@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Friday, 11 December 2015, 14:20
Subject: [hp8924] Video Monitor

  The unit I have when I bought it was purpose built for the 8920 series. At least that's the way it was advertised. The company I bought it from was the only supplier. I looked for an alternative that was cheaper but it wasn't to be found. Have you considered it may not have one of the generic game board converters but a purpose built unit? I was surprised to see so many on Ebay now and at a better price.

Clif Holland KA5IPF
www.avvid.com

# 2280. [hp8924] Video Monitor

Yahoo group: hp8924
Date: 2015-12-11 22:58:47 UTC
From: clif@avvid.com
Topic: 129  Message: 2280

I don't know. All I know is the ones I posted a link to (Xvga Box) are identical to the one I have. I did get some instructions on setup for the 8920.

Clif Holland KA5IPF
www.avvid.com

# 2281. Re: [hp8924] Video Monitor

Yahoo group: hp8924
Date: 2015-12-12 14:51:38 UTC
From: wallydoc@...
Topic: 129  Message: 2281

I guess this is the thing Cliff is talking about: XVGA box , HP-8924, HP-8920 to VGA industrial Converter in Business & Industrial, Electrical & Test Equipment, Industrial Automation, Control | eBay.
I plead ignorance, but what would happen if you plugged the HP video output into a LCD TV?
As you can probably tell, I don't know much about video.
Wally KC9INK

# 2282. Re: [hp8924] Video Monitor

Yahoo group: hp8924
Date: 2015-12-12 19:14:33 UTC
From: robert8rpi@...
Topic: 129  Message: 2282

Hi Wally,
OK, Thet seller had a link to the manual which helps. The GBS8219 (XVGA Box) supports SoG (sync on Green input, which the 8200 does not. This explains it working without an external sync separator. If Clif had to connect the Green and CSync input in parallel, it suggests it only picked up one of the sync pulses on the green. But it also sounds like any of the xvga (GBS8219) boxes should work. You will ave to select the correct configuration through the menu system.
Just connecting the video to an LCD TV is highly unlikely to work. The only type of monitor that will work is a true wide range multistandard one like the original NEC Multisync CRT monitors. Unfortunatly NEC played on the reputation of the original Multisync and used it as a brand name on later monitors that were not multistandard, so most later "Multisync" monitors won't work/

Robert G8RPI.

# 2283. [hp8924] Video Monitor

Yahoo group: hp8924
Date: 2015-12-12 21:41:04 UTC
From: clif@avvid.com
Topic: 129  Message: 2283

I use a HP Vs17 computer monitor that I had laying around.

Clif Holland KA5IPF
www.avvid.com

# 2284. Re: [hp8924] Video Monitor

Yahoo group: hp8924
Date: 2015-12-12 22:09:00 UTC
From: robert8rpi@...
Topic: 129  Message: 2284

Hi Clif,
I think Wally was asking if you could connect the 892x directly to a TV type LCD monitor. Any standard VGA monitor like your vs17will work on the output of a GBS82xx converter.

I did a little research and thre is more information about the GBS-82xx boards available now.
They all use a TV7525 upscaler chip what is capable of handling the 892x video directly (it needs one additional 1nF capacitor for sync on green), but needs to be set-up correctly. The boards use a microprocessor to set-up the 7525. Depending on the firmware in this micro, the unit may or may not support the 892x video without a sync separator. It looks like the XVGB (GBS-8219) boxed units are better in this respect. At least one gaming enthusiast has posted code for the RaspberryPi that allows you to set the 7525 registers directly which allows additional modes and tweaks. Having used that to optimise settings for for the 892x you could use a PIC as a fixed "loader". I don't think it's worth spending the time though. The data for the 7525 runs to 3 documents and hundreds of pages.I might open up my 8200 and see if it has the SOG capacitor fitted though. More recent version of the 8200 may have better firmware for use with the 892x, but you would have to buy one and try it.

Robert G8RPI.

# 2285. New file uploaded to hp8924

Yahoo group: hp8924
Date: 2015-12-31 06:18:42 UTC
From: hp8924@yahoogroups.com
Topic: 31  Message: 2285

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hp8924
group.

File : /GBS8220 to HP 89xx.rar
Uploaded by : leonnix77 <leonnix77@...>
Description : This LM1881 interface for the GBS8220 worked for me - schematic included.
Many snippets of information in separate places but never could find a complete schematic.
Hopefully it will help others. Again this worked for me, no guarantees it will work for
others.

You can access this file at the URL:
https://groups.yahoo.com/neo/groups/hp8924/files/GBS8220%20to%20HP%2089xx.rar

To learn more about file sharing for your group, please visit:
https://help.yahoo.com/kb/index?page=content&y=PROD_GRPS&locale=en_US&id=SLN15398

Regards,

leonnix77 <leonnix77@...>

# 2286. Tuning Repeater Cans

Yahoo group: hp8924
Date: 2016-01-03 20:40:48 UTC
From: Michael A. Waldron
Topic: 2286  Message: 2286

Does anyone know of a tutorial or set of instructions I can use to learn how to use my 8924 for tuning cavities?

The local club asked me if I could assist, and I had to admit I had the equipment but not the knowledge.

Any help and pointers would be appreciated!

-Mike

--
Michael A. Waldron, AE0MW
http://www.mikew.org

# 2287. Re: [hp8924] Tuning Repeater Cans

Yahoo group: hp8924
Date: 2016-01-03 21:26:09 UTC
From: Ralph Mowery
Topic: 2286  Message: 2287

Do you have  a return loss bridge and a good (very low swr) dummy load or two ?.  It does not have to handle more than about half a watt.  Even a couple of atteunators of about 20 or more db may be used.
There are two ways to tune the duplexer, with and without the return loss bridge.  It helps to know what kind of duplexer.  Is it just a notch type, or a bandpass/band reject ?
Youtube has some using a e8285 or something similar that is very close to the 8924.
This will take you to something I made a while back.  Not very good, but may give you an idea.
https://drive.google.com/drive/folders/0B7wJcih38lRAWHJDa3U5MklBRFU

From: "'Michael A. Waldron' lists@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Sunday, January 3, 2016 3:40 PM
Subject: [hp8924] Tuning Repeater Cans

Does anyone know of a tutorial or set of instructions I can use to learn how to use my 8924 for tuning cavities?

The local club asked me if I could assist, and I had to admit I had the equipment but not the knowledge.

Any help and pointers would be appreciated!

-Mike

--
Michael A. Waldron, AE0MW
http://www.mikew.org

# 2288. Re: [hp8924] Tuning Repeater Cans

Yahoo group: hp8924
Date: 2016-01-04 12:29:03 UTC
From: Michael A. Waldron
Topic: 2286  Message: 2288

No problem on the good dummy loads, and I do have a return loss bridge, but it's of questionable quality.

I didn't ask what type of cans they were, the club is moving on to plan b, but I feel that it's something worth learning so I was hoping to pick up some junk cans at a future hamfest to practice on.

I'll take a look at youtube and your link, thanks!

-Mike

On 1/3/2016 3:26 PM, Ralph Mowery ku4pt@... [hp8924] wrote:
>
> Do you have a return loss bridge and a good (very low swr) dummy load or two ?. It does not have to handle more than about half a watt. Even a couple of atteunators of about 20 or more db may be used.
>
> There are two ways to tune the duplexer, with and without the return loss bridge. It helps to know what kind of duplexer. Is it just a notch type, or a bandpass/band reject ?
>
> Youtube h as some using a e8285 or something similar that is very close to the 8924.
>
> This will take you to something I made a while back. Not very good, but may give you an idea.
>
> https://drive.google.com/drive/folders/0B7wJcih38lRAWHJDa3U5MklBRFU
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> *From:* "'Michael A. Waldron' lists@... [hp8924]" <hp8924@yahoogroups.com>
> *To:* hp8924@yahoogroups.com

> *Sent:* Sunday, January 3, 2016 3:40 PM
> *Subject:< /b> [hp8924] Tuning Repeater Cans
> ***
> *
>
> Does anyone know of a tutorial or set of instructions I can use to learn how to use my 8924 for tuning cavities?
>
> The local club asked me if I could assist, and I had to admit I had the equipment but not the knowledge.
>
> Any help and pointers would be appreciated!
>
> -Mike
>
> --
> Michael A. Waldron, AE0MW
> http://www.mikew.org <http://www.mikew.org/>
>
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> *

--
Michael A. Waldron, AE0MW
http://www.mikew.org

# 2289. Re: [hp8924] Tuning Repeater Cans

Yahoo group: hp8924
Date: 2016-01-04 12:49:24 UTC
From: Milton Engle
Topic: 2286  Message: 2289

Do a search on this groups files and you should find some answers.
Several years ago there were some posts concerning setting up the 8924
for duplexer tuning.

On 1/3/2016 3:40 PM, 'Michael A. Waldron' lists@... [hp8924] wrote:
> Does anyone know of a tutorial or set of instructions I can use to learn how to use my
8924 for tuning cavities?
>
> The local club asked me if I could assist, and I had to admit I had the equipment but not
the knowledge.
>
> Any help and pointers would be appreciated!
>
> -Mike
>

# 2290. RE: [hp8924] Tuning Repeater Cans

Yahoo group: hp8924
Date: 2016-01-04 14:36:49 UTC
From: Jim Jones
Topic: 2286  Message: 2290
Attachments: 2 described; binary payloads are missing from this source WARC

Hi Mike,

I have an 8920A and have similar thoughts about using it for a variety of projects but nothing seems to be easy! I am using a Mini Circuits combiner as a return loss bridge to do antenna measurements and it works pretty well, but getting everything setup can be daunting!

I agree that there are some good Youtube videos using 892X machines on tuning cavities. I have attempted to use the 8920 on a couple of small UHF duplexers but have never had much luck.

The 8920 is a great box, but all of the RF Tools stuff is on unobtainium 40 pin Epson cards so I haven’t been able to get much help there. I’ve tried to get HPIB going, but haven’t had much luck there either. I have a neighbor who just retired in December after 45 years as a senior engineering from Collins who loves to play around with this stuff, so I’m hoping I can get him to come down give me some pointers. I’m hoping we can get him to get a license because he is a real resource with regard to V/U RF stuff.

Not much going on around here regarding D-Star. Both of the n0cxx systems appear to be working well but they are not used much. I know there are at least 30 radios in town, but most of them were bought a group buy and programmed, but never used.

Maybe this year will be better.

When are the DSM hamfests this year? Have been missing them for sometime. Used to always make the in the fall, but not sure if it even happens anymore.

73

Jim w0nkn

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com]
Sent: Monday, January 04, 2016 6:29 AM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Tuning Repeater Cans

No problem on the good dummy loads, and I do have a return loss bridge, but it's of questionable quality.

I didn't ask what type of cans they were, the club is moving on to plan b, but I feel that it's something worth learning so I was hoping to pick up some junk cans at a future hamfest to practice on.

I'll take a look at youtube and your link, thanks!

-Mike

On 1/3/2016 3:26 PM, Ralph Mowery ku4pt@... [hp8924] wrote:
>
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> *From:* "'Michael A. Waldron' lists@... [hp8924]" <hp8924@yahoogroups.com>
> *To:* hp8924@yahoogroups.com
> *Sent:* Sunday, January 3, 2016 3:40 PM
> *Subject:< /b> [hp8924] Tuning Repeater Cans
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Michael A. Waldron, AE0MW
http://www.mikew.org

# 2291. Re: [hp8924] HP 8935 external monitor

Yahoo group: hp8924
Date: 2016-01-04 15:06:11 UTC
From: Dave Wright
Topic: 129  Message: 2291

What is the pinout of an adapter to use an original NEC MultiSync?

Dave

Robert Atkinson robert8rpi@... [hp8924] wrote:
Hi, An original NEC MultiSync, if you can find one.

# 2292. Re: [hp8924] Tuning Repeater Cans

Yahoo group: hp8924
Date: 2016-01-04 15:40:06 UTC
From: eseacord
Topic: 2286  Message: 2292

Jim
Have you gone to the Amtronix.com website?
He has writeups on the 892x's along with some software and hardware for sale. He may have some 8920 compatible cards.
I sent my 8924 to him for repair and calibration. It came back very quickly repaired and caled at a really great price.
Repeater-builder.com is also an excellent site for how to's.
Also go to
"http://www.measurement.net.au/c/25306/1/rf-tools-software.html". They have the software
and cards at a deeply discounted price specifically for hams.
Hope this helps
Rix
k2avp

On 1/4/2016 9:36 AM, 'Jim Jones' jonesjames@... [hp8924] wrote:
>
> Hi Mike,
>
> I have an 8920A and have similar thoughts about using it for a variety
> of projects but nothing seems to be easy! I am using a Mini Circuits
> combiner as a return loss bridge to do antenna measurements and it
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> I agree that there are some good Youtube videos using 892X machines on
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> 73
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> Jim w0nkn
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> *From:*hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com]
> *Sent:* Monday, January 04, 2016 6:29 AM
> *To:* hp8924@yahoogroups.com
> *Subject:* Re: [hp8924] Tuning Repeater Cans
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> > *To:* hp8924@yahoogroups.com
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# 2293. Re: [hp8924] Tuning Repeater Cans

Yahoo group: hp8924
Date: 2016-01-04 15:43:07 UTC
From: Ralph Mowery
Topic: 2286  Message: 2293

I would not worry too much about the RF Tools.  There is not much on them except the coax fault finder that most would use.  For most of them it is easier just to set up the 8920/8924 series with out them.  There are some cases where doing the same test over and over they may be handy.
Are you using the Minicircuits combiner or one of their directional couplers ?  I have one of each.  The directional coupler works very well for me.  It is a ZFDC-20-5.  That is for return losses and the combiner is for the coax fault finder. I have not used it for that yet.
It may just take someone to show you how to setup the 8920 (assuming it has the tracking generator and spectrum analyzer option) as to how to tune up the duplexers.  It is very easy once you get the hang of it. I have tuned both the bpbr and notch types.  Even without the SA/TG you should be able to get them very close.  Several good vids on youtube about that using a similar E8285 (may have the numbers wrong).  You do need some good double shielded cables like the rg-400.

From: "'Jim Jones' jonesjames@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Monday, January 4, 2016 9:36 AM
Subject: RE: [hp8924] Tuning Repeater Cans

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73Jim w0nkn

# 2294. RE: [hp8924] Tuning Repeater Cans

Yahoo group: hp8924
Date: 2016-01-04 18:38:43 UTC
From: Adam Farson
Topic: 2286  Message: 2294

Hi Jim,

I have successfully used a Mini-Circuits ZFDC-20-5-N directional coupler with N fittings as a return-loss bridge with my 8935. A friend of mine is using one with his 8921A.

Amtronix still offer RFTools on an Epson card at a reasonable price; you might try them. They also offer an upgrade service to convert an 8920A into an 8920B, which has the PCMCIA slot. 11807E Opt. 100 cards are available via popular auction sites. Bob Atkinson in the UK may still offer this card.

73, Adam VA7OJ/AB4OJ

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com]
Sent: 4-Jan-16 06:37
To: hp8924@yahoogroups.com
Subject: RE: [hp8924] Tuning Repeater Cans

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Maybe this year will be better.

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Sent: Monday, January 04, 2016 6:29 AM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Tuning Repeater Cans

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I didn't ask what type of cans they were, the club is moving on to plan b, but I feel that it's something worth learning so I was hoping to pick up some junk cans at a future hamfest to practice on.

I'll take a look at youtube and your link, thanks!

-Mike

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http://www.mikew.org

# 2295. Re: Tuning Repeater Cans

Yahoo group: hp8924
Date: 2016-01-04 19:15:12 UTC
From: rhyolite@...
Topic: 2286  Message: 2295

You might start with getting the tuning instructions from the duplexer manufacturer. Get the model number and start with that.

I have never used a RLB when tuning duplexers. I use a couple of 3 dB pads to improve the test set return loss and a good 50 ohm load to terminate the antenna or other port. The 3 dB pads are each attached to the generate and spectrum analyzer ports so that the filter "sees" a good 50 ohm termination.

Use top quality cables and N connectors (or BNC) where possible. Using these same cables, use a barrel connector to calibrate the generator and analyzer to a zero reference level (top graduation line on screen). Use the highest generator level and greatest attenuation of the analyzer that will match the top line. This way you have enough signal to see the depth of notch.

If the cavities can be disconnected *, I tune each cavity pass band first, then tune the reject, then carefully fine tune reject with the pass band knob. This so I can see the depth of the notch for each filter separately. Then connect each pair of cavities and check the insertion loss and reject notch depth. Do this for the high side and low side, then connect all together and check each branch from the antenna port while the opposite port is terminated to 50 ohms.

If the insertion loss is excessive or notch depth insufficient (read specs) start over and pay attention to interactions of passband and reject tuning.

* The inter cavity and junction cables are almost always a critical length, so should be noted before disassembly where they belong.

There is a video available that describes 8920 test set operation and tuning a duplexer. You should download that.

# 2296. Re: Tuning Repeater Cans

Yahoo group: hp8924
Date: 2016-01-04 19:21:15 UTC
From: rhyolite@...
Topic: 2286  Message: 2296

I should add, that if it is one of those mobile type duplexers, it is all a reject notch tuning and you tune for minimum signal/maximum notch depth. Those duplexers are not much good on a communications site however.

# 2297. Re: [hp8924] Re: Tuning Repeater Cans

Yahoo group: hp8924
Date: 2016-01-04 20:06:12 UTC
From: Ralph Mowery
Topic: 2286  Message: 2297

While I doubt it will really make much if any difference in tuning a duplexer with a RLB you should try it.  Many of the band pass cans will have a broad tuning range.  On many cans I can give the tuning knob a full turn or so and hardly see any change when just looking at just the maximum signal, but with a RLB it is easy to see even 1/4 of a turns effect on the tuning.  It also keeps the impedance of the system at 50 ohms where just tuning for max signal may not.
I am not sure when the RLB started to be used by many to tune things outside of the factory, probably due to the cost.  Now the cost is reasonable for many to have.  A Minicircuits can be bought for less than $ 100 and for tuning it works as well as the ones that are sold for over $ 200.
I did play with a RLB using a seperate signal generator and service monitor set up as a receiver to see if it was workable,and it seemed to be a way to go if one does not have the SA/TG.

From: "rhyolite@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Monday, January 4, 2016 2:15 PM
Subject: [hp8924] Re: Tuning Repeater Cans

<!--#yiv7950957310 #yiv7950957310 .yiv7950957310ygrp-photo-title{clear:both;font-size:smaller;height:15px;overflow:hidden;text-align:center;width:75px;}#yiv7950957310 div.yiv7950957310ygrp-photo{background-position:center;background-repeat:no-repeat;background-color:white;border:1px solid black;height:62px;width:62px;}#yiv7950957310 div.yiv7950957310photo-title a, #yiv7950957310 div.yiv7950957310photo-title a:active, #yiv7950957310 div.yiv7950957310photo-title a:hover, #yiv7950957310 div.yiv7950957310photo-title a:visited {text-decoration:none;}#yiv7950957310 div.yiv7950957310attach-table div.yiv7950957310attach-row {clear:both;}#yiv7950957310 div.yiv7950957310attach-table div.yiv7950957310attach-row div {float:left;}#yiv7950957310 p {clear:both;padding:15px 0 3px 0;overflow:hidden;}#yiv7950957310 div.yiv7950957310ygrp-file {width:30px;}#yiv7950957310 div.yiv7950957310attach-table div.yiv7950957310attach-row div div a {text-decoration:none;}#yiv7950957310 div.yiv7950957310attach-table div.yiv7950957310attach-row div div span {font-weight:normal;}#yiv7950957310 div.yiv7950957310ygrp-file-title {font-weight:bold;}#yiv7950957310 --> <!--#yiv7950957310 #yiv7950957310ygrp-mkp {border:1px solid #d8d8d8;font-family:Arial;margin:10px 0;padding:0 10px;}#yiv7950957310 #yiv7950957310ygrp-mkp hr {border:1px solid #d8d8d8;}#yiv7950957310 #yiv7950957310ygrp-mkp #yiv7950957310hd {color:#628c2a;font-size:85%;font-weight:700;line-height:122%;margin:10px 0;}#yiv7950957310 #yiv7950957310ygrp-mkp #yiv7950957310ads {margin-bottom:10px;}#yiv7950957310 #yiv7950957310ygrp-mkp .yiv7950957310ad {padding:0 0;}#yiv7950957310 #yiv7950957310ygrp-mkp .yiv7950957310ad p {margin:0;}#yiv7950957310 #yiv7950957310ygrp-mkp .yiv7950957310ad a {color:#0000ff;text-decoration:none;}-->

You might start with getting the tuning instructions from the duplexer manufacturer. Get the model number and start with that.

I have never used a RLB when tuning duplexers. I use a couple of 3 dB pads to improve the test set return loss and a good 50 ohm load to terminate the antenna  or other port. The 3 dB pads are each attached to the generate and spectrum analyzer ports so that the filter "sees" a good 50 ohm termination.

# 2298. Re: [hp8924] HP 8935 external monitor

Yahoo group: hp8924
Date: 2016-01-04 21:08:41 UTC
From: Robert Atkinson
Topic: 129  Message: 2298

Hi,It's a direct connection to the green or composite input on the multisync. No electronics required. I can't recall the connections. Some had BNC's which should be obvious, others had a 9 pin D, you would need the exact model number to check the connections.
Robert G8RPI.

From: "'Dave Wright' dave@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Monday, 4 January 2016, 15:06
Subject: Re: [hp8924] HP 8935 external monitor

  What is the pinout of an adapter to use an original NEC MultiSync?

Dave

Robert Atkinson robert8rpi@... [hp8924] wrote:
Hi, An original NEC MultiSync, if you can find one.

# 2299. Re: [hp8924] Tuning Repeater Cans

Yahoo group: hp8924
Date: 2016-01-05 07:21:38 UTC
From: robert8rpi@...
Topic: 2286  Message: 2299

Hi,
There are two "RF Tools" one is the original HP software ona a card (11807A Epson, or 11807E PCMCIA, option 100) and the newer software from Australia. For actually tuning diplexers and filters the HP software does not help as it is too slow. Where ir does come in is to measure the performance. You can normalise the setup (RLB attenuators , cables) against a short and accurate load and thus get accurate performance figures.
I have copy 11807E opt 100 cards available, $60 inc shipping.

Robert G8RPI.

# 2300. Re: [hp8924] Re: Tuning Repeater Cans

Yahoo group: hp8924
Date: 2016-01-07 12:38:34 UTC
From: Michael A. Waldron
Topic: 2286  Message: 2300

Thanks for all the advice gentlemen, I'm going to look for my RLB and find some cans to practice on at the next 'fest.

-Mike

--
Michael A. Waldron, AE0MW
http://www.mikew.org

# 2301. Power measurement with E6380A

Yahoo group: hp8924
Date: 2016-01-10 15:21:04 UTC
From: wallydoc@...
Topic: 2301  Message: 2301

Just a conversation.
I have noticed that on the RF screen on my HP8935 E6380 HF power measurements are quite high over about 30W, I believe this is normal from other conversations.
I tried the CDMA screen and it seems that I can get good watt measurements up to 100W.
The measurements seem to agree with measurements on my radio, TenTec Jupiter and other Power/SWR meters.
Any Comments?
Wally KC9INK

# 2302. Re: [hp8924] Power measurement with E6380A

Yahoo group: hp8924
Date: 2016-01-10 15:43:47 UTC
From: Ralph S. Turk
Topic: 2301  Message: 2302

What frequency? What mode, AM, FM, CW, SSB? How are you connecting the RF source?
The 89xx series except for certain versions are not very accurate
in the HF range. Using a good Power meter that has the ability
to measure in the 30-100 watt range will give you a base line to
compare to the reading you are seeing on the 8935.
Ralph, W7HSG

----- Original Message -----

From: "wallydoc@... [hp8924]" <hp8924@yahoogroups.com>
To: "hp8924" <hp8924@yahoogroups.com>
Sent: Sunday, January 10, 2016 8:21:04 AM
Subject: [hp8924] Power measurement with E6380A

Just a conversation.

I have noticed that on the RF screen on my HP8935 E6380 HF power measurements are quite high over about 30W, I believe this is normal from other conversations.

I tried the CDMA screen and it seems that I can get good watt measurements up to 100W.

The measurements seem to agree with measurements on my radio, TenTec Jupiter and other Power/SWR meters.

Any Comments?

Wally KC9INK

# 2303. Re: [hp8924] Power measurement with E6380A

Yahoo group: hp8924
Date: 2016-01-10 15:52:50 UTC
From: W Private
Topic: 2301  Message: 2303

Radio connected directly to service monitor with 50 ohm coax.Also connected with power meter between radio and monitor.HF from 80 to 10 tested.The CDMA screen seems to work, but you have to use "channel power" and push the calibrate button.Again the RF analyzer screen is not accurate at all especially over 30W.Thanks for the comment.Wally KC9INK

On Sunday, January 10, 2016 10:43 AM, "'Ralph S. Turk' w7hsg@... [hp8924]" <hp8924@yahoogroups.com> wrote:

What frequency?  What mode, AM, FM, CW, SSB?  How are you connecting the RF source?The 89xx series except for certain versions are not very accurate in the HF range.  Using a good Power meter that has the abilityto measure in the 30-100 watt range will give you a base line to compare to the reading you are seeing on the 8935.Ralph, W7HSG
From: "wallydoc@... [hp8924]" <hp8924@yahoogroups.com>
To: "hp8924" <hp8924@yahoogroups.com>
Sent: Sunday, January 10, 2016 8:21:04 AM
Subject: [hp8924] Power measurement with E6380A

Just a conversation.I have noticed that on the RF screen on my HP8935 E6380 HF power measurements are quite high over about 30W, I believe this is normal from other conversations.I tried the CDMA screen and it seems that I can get good watt measurements up to 100W.The measurements seem to agree with measurements on my radio, TenTec Jupiter and other Power/SWR meters.Any Comments?Wally KC9INK

# 2304. Re: [hp8924] Power measurement with E6380A

Yahoo group: hp8924
Date: 2016-01-10 15:54:38 UTC
From: W Private
Topic: 2301  Message: 2304

Radio connected directly to service monitor with 50 ohm coax.Also connected with power meter between radio and monitor.HF from 80 to 10 tested.The CDMA screen seems to work, but you have to use "channel power" and push the calibrate button.Again the RF analyzer screen is not accurate at all especially over 30W.Thanks for the comment.Wally KC9INK

On Sunday, January 10, 2016 10:43 AM, "'Ralph S. Turk' w7hsg@... [hp8924]" <hp8924@yahoogroups.com> wrote:

What frequency?  What mode, AM, FM, CW, SSB?  How are you connecting the RF source?The 89xx series except for certain versions are not very accurate in the HF range.  Using a good Power meter that has the abilityto measure in the 30-100 watt range will give you a base line to compare to the reading you are seeing on the 8935.Ralph, W7HSG
From: "wallydoc@... [hp8924]" <hp8924@yahoogroups.com>
To: "hp8924" <hp8924@yahoogroups.com>
Sent: Sunday, January 10, 2016 8:21:04 AM
Subject: [hp8924] Power measurement with E6380A

Just a conversation.I have noticed that on the RF screen on my HP8935 E6380 HF power measurements are quite high over about 30W, I believe this is normal from other conversations.I tried the CDMA screen and it seems that I can get good watt measurements up to 100W.The measurements seem to agree with measurements on my radio, TenTec Jupiter and other Power/SWR meters.Any Comments?Wally KC9INK

# 2305. RE: [hp8924] Power measurement with E6380A

Yahoo group: hp8924
Date: 2016-01-10 16:37:49 UTC
From: Tony Brignole
Topic: 2301  Message: 2305

If you check, specs 8935 is specd at 100 MHz up. Not designed to work at HF.

Some folks have talked about using sampling to measure HF and they can comment. Also some folks with more experience can comment on its use below 100 MHZ.

From: hp8924@yahoogroups.com [mailto:hp8924@...m]
Sent: Sunday, January 10, 2016 9:21 AM
To: hp8924@yahoogroups.com
Subject: [hp8924] Power measurement with E6380A

Just a conversation.

I have noticed that on the RF screen on my HP8935 E6380 HF power measurements are quite high over about 30W, I believe this is normal from other conversations.

I tried the CDMA screen and it seems that I can get good watt measurements up to 100W.

The measurements seem to agree with measurements on my radio, TenTec Jupiter and other Power/SWR meters.

Any Comments?

Wally KC9INK

# 2306. Agilent E8285A stinky

Yahoo group: hp8924
Date: 2016-01-14 00:54:21 UTC
From: Frank Hughes
Topic: 2306  Message: 2306

Hi,It still works, but I shut it off before anything goes to smoke.I have read an account by Chris, ZL1CVD, about the old PSU electrolytics causing issues.Found the manual for locating and removing the PSU. Intend to replace all the electrolytics I find in the PSU. Hope that is the stink source.
I could not find any schematics or parts lists, would like to know what types/valuesof capacitors to order.
Currently have one operational arm, the other is in a sling for a while (torn rotator cuff surgery)So I can't take the E8285A out of the cabinet, disassemble, and list caps.73FrankKJ4OLL

# 2307. Fw: new important message

Yahoo group: hp8924
Date: 2016-01-15 08:27:19 UTC
From: <dave@...>
Topic: 2307  Message: 2307

```
Hello!

New message, please read <http://neox.tmpl.mk.ua/natural.php?xdsv>

dave@...
```

# 2308. Hard to Find Cables for HP8920 HP8921 HP8924

Yahoo group: hp8924
Date: 2016-01-15 23:36:28 UTC
From: larson_art@...
Topic: 2308  Message: 2308

I started making RJ-11 to USB Serial cables for the HP8920, HP8921 and HP8924. Also DC Power Cables for the HP8920 and HP8921. They can be found on Ebay if anybody needs one. Thanks

# 2309. 8935 problem

Yahoo group: hp8924
Date: 2016-01-16 20:21:15 UTC
From: george@...
Topic: 2309  Message: 2309
Attachments: 1 described; binary payloads are missing from this source WARC

I'm having a problem with an 8935. Bootup gets stuck at the diagnostic screen. Wish Yahoo allowed attachments I'd send one. But fans come up, first screen comes up then the bootrom diagnostic runs and after a while the demod noise from the speaker stops, as usual, but normally that's the point where the operational screen appears, but in my case it doesn't. The troubleshooting guide takes me to "is there an error message?" well, no, technically, then wants me to run the functional diagnostics, which I can't do since it is frozen. So...anybody have any suggestions as to where to start looking?I guess next I'll remove the external cover and look for error lights.

GeorgeC
W2DB

# 2310. RE: [hp8924] 8935 problem [1 Attachment]

Yahoo group: hp8924
Date: 2016-01-16 20:53:19 UTC
From: Adam Farson
Topic: 2309  Message: 2310

Hi George,

The attachment did come through. It looks as if the POST process hangs at the end of the Bootrom diagnostic.

You could also try unplugging, then re-seating boards in the processor area.

Can you try a reset? Here are the HP/Agilent reset instructions.

---

How do I reset my Agilent 8935 when it locks up?

The reset procedure for the Agilent 8935 series of base station test sets (E6380, E6381) is:

1. Turn the unit off.

2. Press and hold down the 7 and 9 keys while turning the unit on.

3. Release the keys when the first screen appears.

Note: If the Agilent H7295SA, User Interface with Remote Test Capability, for the Agilent E6380A was being used, the test set may appear locked up because it is expecting signals on serial port 11. If this is the cause, connecting a serial cable to port 11 and running the Agilent H7295SA software will unlock the test set. If neither procedure unlocks the unit, it may need servicing.

---

73, Adam VA7OJ/AB4OJ

From: hp8924@...m [mailto:hp8924@yahoogroups.com]
Sent: 16-Jan-16 12:21
To: hp8924@yahoogroups.com
Subject: [hp8924] 8935 problem [1 Attachment]

[Attachment(s) from george@... [hp8924] included below]

I'm having a problem with an 8935. Bootup gets stuck at the diagnostic screen. Wish Yahoo allowed attachments I'd send one. But fans come up, first screen comes up then the bootrom diagnostic runs and after a while the demod noise from the speaker stops, as usual, but normally that's the point where the operational screen appears, but in my case it doesn't. The troubleshooting guide takes me to "is there an error message?" well, no, technically, then wants me to run the functional diagnostics, which I can't do since it is frozen. So...anybody have any suggestions as to where to start looking?I guess next I'll remove the external cover and look for error lights.

GeorgeC

W2DB

# 2311. Re: 8935 problem

Yahoo group: hp8924
Date: 2016-01-16 21:33:15 UTC
From: abrigno@...
Topic: 2309  Message: 2311

Had similar problem. Sent to Amtronix and Rick reported that they re-seated all the boards and it solved the problem. You might try it as it is not too difficult and you may be lucky. They calibrated to ISO 9000 standards and certified it for me while they had it.

# 2312. RE: [hp8924] Hard to Find Cables for HP8920 HP8921 HP8924

Yahoo group: hp8924
Date: 2016-01-16 21:35:11 UTC
From: radiocommunication
Topic: 2308  Message: 2312

May I have the relative Links, Please?

Thank you!

73's

---

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com]
Sent: Saturday, January 16, 2016 1:36 AM
To: hp8924@yahoogroups.com
Subject: [hp8924] Hard to Find Cables for HP8920 HP8921 HP8924

I started making RJ-11 to USB Serial cables for the HP8920, HP8921 and HP8924. Also DC Power Cables for the HP8920 and HP8921. They can be found on Ebay if anybody needs one. Thanks

# 2313. Re: [hp8924] 8935 problem

Yahoo group: hp8924
Date: 2016-01-16 21:40:26 UTC
From: Robert Atkinson
Topic: 2309  Message: 2313

It would also be worth reseating any socketed chips (EPROMs etc) on the processor and memory boards. SorryI can't be specific, I've a 8924 not a 8935. No need to remove them completly, just ease up one end slightly then press it back down in the socket (both ends) Robert G8RPI.

From: "'Adam Farson' farson@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Saturday, 16 January 2016, 20:53
Subject: RE: [hp8924] 8935 problem

Hi George,  The attachment did come through. It looks as if the POST process hangs at the end of the Bootrom diagnostic.  You could also try unplugging, then re-seating boards in the processor area.  Can you try a reset? Here are the HP/Agilent reset instructions.  How do I reset my Agilent 8935 when it locks up?  The reset procedure for the Agilent 8935 series of base station test sets (E6380, E6381) is:  1. Turn the unit off. 2. Press and hold down the 7 and 9 keys while turning the unit on. 3. Release the keys when the first screen appears.  Note: If the Agilent H7295SA, User Interface with Remote Test Capability, for the Agilent E6380A was being used, the test set may appear locked up because it is expecting signals on serial port 11. If this is the cause, connecting a serial cable to port 11 and running the Agilent H7295SA software will unlock the test set. If neither procedure unlocks the unit, it may need servicing.  73, Adam VA7OJ/AB4OJ  From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com]
Sent: 16-Jan-16 12:21
To: hp8924@yahoogroups.com
Subject: [hp8924] 8935 problem [1 Attachment]  [Attachment(s) from george@... [hp8924] included below]

I'm having a problem with an 8935. Bootup gets stuck at the diagnostic screen. Wish Yahoo allowed attachments I'd send one. But fans come up, first screen comes up then the bootrom diagnostic runs and after a while the demod noise from the speaker stops, as usual, but normally that's the point where the operational screen appears, but in my case it doesn't. The troubleshooting guide takes me to "is there an error message?" well, no, technically, then wants me to run the functional diagnostics, which I can't do since it is frozen. So...anybody have any suggestions as to where to start looking?I guess next I'll remove the external cover and look for error lights.  GeorgeCW2DB

# 2314. Re: [hp8924] Hard to Find Cables for HP8920 HP8921 HP8924

Yahoo group: hp8924
Date: 2016-01-16 21:54:31 UTC
From: Rodney Rockwell
Topic: 2308  Message: 2314

I believe it's:
http://www.ebay.com/itm/HP8920-HP8921-HP8924-Serial-RJ11-to-USB-Kit-for-Screen-Capture-Other-Programs-/221996219872?hash=item33b0017de0:g:DKIAAOSwCypWmX0~

73,RodN8RAT

From: "'radiocommunication' radiocom@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Saturday, January 16, 2016 4:35 PM
Subject: RE: [hp8924] Hard to Find Cables for HP8920 HP8921 HP8924

May Ihave the relative Links, Please? Thankyou! 73’s From:hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com]
Sent: Saturday, January 16, 20161:36 AM
To: hp8924@yahoogroups.com
Subject: [hp8924] Hard to FindCables for HP8920 HP8921 HP8924 I startedmaking RJ-11 to USB Serial cables for the HP8920, HP8921 and HP8924. Also DCPower Cables for the HP8920 and HP8921. They can be found on Ebay if anybodyneeds one. Thanks

# 2315. Re: [hp8924] Hard to Find Cables for HP8920 HP8921 HP8924

Yahoo group: hp8924
Date: 2016-01-16 23:27:00 UTC
From: Art Larson
Topic: 2308  Message: 2315

Here is the link to the DC power cable for the 8920 / 8921Thanks

HP8920 HP8921 DC Power Cable with 6' 12 guage wire and 15 amp fuse
|  |
|  | |  |  |  |  |  |
| HP8920 HP8921 DC Power Cable with 6' 12 guage wire a...US $34.00 New in Business & Industrial, Electrical & Test Equipment, Test Equipment |
| |
| View on www.ebay.com | Preview by Yahoo |
| |
|  |

On Saturday, January 16, 2016 2:54 PM, "Rodney Rockwell n8rat@... [hp8924]" <hp8924@yahoogroups.com> wrote:

I believe it's:
http://www.ebay.com/itm/HP8920-HP8921-HP8924-Serial-RJ11-to-USB-Kit-for-Screen-Capture-Other-Programs-/221996219872?hash=item33b0017de0:g:DKIAAOSwCypWmX0~

73,RodN8RAT

From: "'radiocommunication' radiocom@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Saturday, January 16, 2016 4:35 PM
Subject: RE: [hp8924] Hard to Find Cables for HP8920 HP8921 HP8924

May Ihave the relative Links, Please? Thankyou! 73’s  From:hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com]
Sent: Saturday, January 16, 20161:36 AM
To: hp8924@yahoogroups.com
Subject: [hp8924] Hard to FindCables for HP8920 HP8921 HP8924  I startedmaking RJ-11 to USB Serial cables for the HP8920, HP8921 and HP8924. Also DCPower Cables for the HP8920 and HP8921. They can be found on Ebay if anybodyneeds one. Thanks

# 2316. Re: 8935 problem

Yahoo group: hp8924
Date: 2016-01-17 02:17:02 UTC
From: george@...
Topic: 2309  Message: 2316

Well, as luck has it my Torx drivers won't fit in the holes on the front panel. So off to 'depot tomorrow to get hold of them. I did run diagnostics on it. Fails on audio analyzer like lower .155 upper .190 actual v dc 7.341. Mist are a bit over 7 volts, so need to dig into the docs on that but also noted that it was hanging up again but I powered down, rocked back and forth, tapped, etc and when I powered it up it will run to operation mode every time. Once it even decoded the local radio station just gave very incorrect modulation readings...I actually think I have an audio card for one of these I bought by mistake a few years back. But the fact that rocking it side to side made a difference really suggests a poorly seated card.

GeorgeC

# 2317. Re: 8935 problem

Yahoo group: hp8924
Date: 2016-01-17 03:12:22 UTC
From: george@...
Topic: 2309  Message: 2317

And one more thing that is now leading me to think I have a serial bus problem, error code 0200, which is serial bus, in diagnostics the serial port fails, three modules (audio ana 1 and 2 and mod distribution) all showing failure and this one I overlooked before, in Instrument Configuration there is a display of calibration date, or something like that, which is now all zeros. So it will be interesting to get the covers off and see if anything is loose or just plain not working. I do have two other units I can steal modules from to test though I'd hate to do board swapping and popping something in good boards because of some screwy problem, but we'll see.

GeorgeC

# 2318. External Monitor

Yahoo group: hp8924
Date: 2016-01-23 22:24:11 UTC
From: wb4yjt@...
Topic: 2318  Message: 2318

I have had excellent results using a GBS8219 Video Converter with the 8924C and a VGA display.

Simply connect the Composite Out from the 8924 to the G/Y connection on the 8219, adjust the vertical and horizontal size and position, and all is well.

The 8219 can be had on ebay for about $160.

It also works well with my HP 8753C.

# 2319. Re: External Monitor

Yahoo group: hp8924
Date: 2016-01-24 06:52:24 UTC
From: larson_art@...
Topic: 2318  Message: 2319

Has any one tried one of these?

NEW Arcade Game RGB/CGA/EGA/YUV to VGA HD Video Converter Board GBS8200 CY http://www.ebay.com/itm/311472460600?_trksid=p2055119.m1438.l2649&ssPageName=STRK%3AMEBIDX%3AIT

http://www.ebay.com/itm/311472460600?_trksid=p2055119.m1438.l2649&ssPageName=STRK%3AMEBIDX%3AIT

NEW Arcade Game RGB/CGA/EGA/YUV to V... http://www.ebay.com/itm/311472460600?_trksid=p2055119.m1438.l2649&ssPageName=STRK%3AMEBIDX%3AIT Features:Latest official GBS8200 V.5 HD-Converter Board. Package including:1pc Converter board GBS8200. Supports CGA/EGA/VGA/YUV Compo...

View on www.ebay.com http://www.ebay.com/itm/311472460600?_trksid=p2055119.m1438.l2649&ssPageName=STRK%3AMEBIDX%3AIT
Preview by Yahoo

# 2320. Re: [hp8924] Re: External Monitor

Yahoo group: hp8924
Date: 2016-01-24 15:47:21 UTC
From: Robert Atkinson
Topic: 2318  Message: 2320

Hi,Yes, I think I was the first to try one of these, several years ago. They work well, but need a sync separator. The LM1991 works well. Some versions also need resistors added. There is plenty of informatin in the archives. Both this and the 8219 mentioned use the same upscaler chip so if programmed correctly the sync separator would not be needed,  but the processor on the (early versions at least) 8200 does not support sync on green fully. I've seen other applications where the processor was hacked, but I found it easier to just add the LM1991. There is plenty of info in old meassages and the files section.
Robert G8RPI.

From: "larson_art@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Sunday, 24 January 2016, 6:52
Subject: [hp8924] Re: External Monitor

  Has any one tried one of these?

NEW Arcade Game RGB/CGA/EGA/YUV to VGA HD Video Converter Board GBS8200 CY
| |
| | | | NEW Arcade Game RGB/CGA/EGA/YUV to V... Features:Latest official GBS8200 V.5 HD-Converter Board. Package including:1pc Converter board GBS8200. Supports CGA/EGA/VGA/YUV Compo... | |
| View on www.ebay.com | Preview by Yahoo |
| |

# 2321. Re: [hp8924] Re: External Monitor

Yahoo group: hp8924
Date: 2016-01-24 18:57:19 UTC
From: Brad Thompson
Topic: 2318  Message: 2321

On 1/24/2016 10:47 AM, Robert Atkinson robert8rpi@... [hp8924]
wrote:
> Hi,
> Yes, I think I was the first to try one of these, several years ago.
> They work well, but need a sync separator. The LM1991 works well. Some
> versions also need resistors added. There is plenty of informatin in
> the archives. Both this and the 8219 mentioned use the same upscaler
> chip so if programmed correctly the sync separator would not be
> needed, but the processor on the (early versions at least) 8200 does
> not support sync on green fully. I've seen other applications where
> the processor was hacked, but I found it easier to just add the
> LM1991. There is plenty of info in old meassages and the files section.
>
Hello, Robert--

Thanks for your comments. Did you mean to write "LM1881" for the sync
separator IC?

Thanks again, and 73--

Brad AA1IP

# 2322. Re: [hp8924] Re: External Monitor

Yahoo group: hp8924
Date: 2016-01-24 19:02:59 UTC
From: Robert Atkinson
Topic: 2318  Message: 2322

Hi,DOH!,yes LM1881
Rob G8RPI.

From: "Brad Thompson brad.thompson@valley.net [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Sunday, 24 January 2016, 18:57
Subject: Re: [hp8924] Re: External Monitor

On 1/24/2016 10:47 AM, Robert Atkinson robert8rpi@yahoo.co.uk [hp8924]
wrote:
> Hi,
> Yes, I think I was the first to try one of these, several years ago.
> They work well, but need a sync separator. The LM1991 works well. Some
> versions also need resistors added. There is plenty of informatin in
> the archives. Both this and the 8219 mentioned use the same upscaler
> chip so if programmed correctly the sync separator would not be
> needed, but the processor on the (early versions at least) 8200 does
> not support sync on green fully. I've seen other applications where
> the processor was hacked, but I found it easier to just add the
> LM1991. There is plenty of info in old meassages and the files section.
>
Hello, Robert--

Thanks for your comments. Did you mean to write "LM1881" for the sync
separator IC?

Thanks again, and 73--

Brad AA1IP

# 2323. Re: [hp8924] Re: External Monitor

Yahoo group: hp8924
Date: 2016-01-24 20:20:05 UTC
From: John Kernkamp
Topic: 2318  Message: 2323

I did set up one of these, but it was tricky.

I added a 1K resistor from the Green input to the Sync input (on the connector with the 5 large pins) to get the sync signal to register.

But it took a lot of fiddling with the "Clamp" settings to get it stable.

The 8219 was almost "plug-&-play".
==========

On Sat, Jan 23, 2016 at 11:52 PM, larson_art@... [hp8924] <
hp8924@yahoogroups.com> wrote:

>
>
> Has any one tried one of these?
>
> NEW Arcade Game RGB/CGA/EGA/YUV to VGA HD Video Converter Board GBS8200 CY
> <http://www.ebay.com/itm/311472460600?_trksid=p2055119.m1438.l2649&ssPageName=STRK%3AMEB
IDX%3AIT>
> [image: image]
> <http://www.ebay.com/itm/311472460600?_trksid=p2055119.m1438.l2649&ssPageName=STRK%3AMEB
IDX%3AIT>
> NEW Arcade Game RGB/CGA/EGA/YUV to V...
> <http://www.ebay.com/itm/311472460600?_trksid=p2055119.m1438.l2649&ssPageName=STRK%3AMEB
IDX%3AIT>
> Features:Latest official GBS8200 V.5 HD-Converter Board. Package
> including:1pc Converter board GBS8200. Supports CGA/EGA/VGA/YUV Compo...
> View on www.ebay.com
> <http://www.ebay.com/itm/311472460600?_trksid=p2055119.m1438.l2649&ssPageName=STRK%3AMEB
IDX%3AIT>
> Preview by Yahoo
>
>
>
>
>
>

# 2324. Re: New file uploaded to hp8924

Yahoo group: hp8924
Date: 2016-01-25 02:14:25 UTC
From: larson_art@...
Topic: 31  Message: 2324

They file path does not seem to work, would like to see it.

Thanks Art N0ART

# 2325. Re: [hp8924] Re: External Monitor

Yahoo group: hp8924
Date: 2016-01-25 08:08:17 UTC
From: robert8rpi@...
Topic: 2318  Message: 2325

Hi,
I initially got it working with RC coupling of the green to sync but it was not very stable.
An external sync separatoer worked much better. I find it interesting that they charge $130 more for a resion in a box and slightly different firmware. Different target maket who need a solution and $160 is cheap to get an expensive machine running where a new CRT monitor is unobtanium.

Robert G8RPI.

# 2326. board swapping

Yahoo group: hp8924
Date: 2016-01-27 21:50:53 UTC
From: ku4pt@...
Topic: 2326  Message: 2326

Are there any boards on the 8924C that can NOT be swapped with out recalibration . I know the power would need calibration if the input power rating is different.

I bought 2 units at a good price. One was working and the other is a parts unit with the power supply missing. I do have another that I have had for a number of years and it works fine. Just could not turn down the others at the price I got them for.

# 2327. Re: board swapping

Yahoo group: hp8924
Date: 2016-01-28 14:45:36 UTC
From: zl1cvd@...
Topic: 2326  Message: 2327

Hi ku4pt

I purchased 4 and got 3 going via board swapping, eBay spare board purchases & replacing bad tantalum SMD & electrolytic caps.

Rule #1 - RTFM :-) <- specifically page 73 of the HP 8924C Assembly Level Repair Guide. Or if you want to do it the right way, start from page 49 - Troubleshooting. Also, if you are just going to use the 'repaired' unit for ham radio, you can swap most modules and simply perform the periodic calibration which is outlines on page 113 onwards.You'll need a very accurate digital DC voltmeter/multi-meter, bunch leads & adapters, some attenuators (3dB I think) and a good frequency reference (a 10MHz GPSDO / GPSTM is ideal).

Rule #2 - See rule #1. Actually, these HP manuals can seem disjointed and painful. But I have found them essential for repair. Also pays to remember allot of what is inside the 8920 also is in the 8924. HP also released allot of circuits for the 8920 - again many are relevant to 8924. They called it 8920 Component Level Repair Packet.

73s om de chris zl1cvd

# 2328. Re: [hp8924] Re: board swapping

Yahoo group: hp8924
Date: 2016-01-28 15:13:34 UTC
From: Ralph Mowery
Topic: 2326  Message: 2328

Thanks for the manual reference.  I think I have that down loaded and will look at those pages.  I have the attenuators and have ran a calibration on the one that I have had for years.  Will do that on the 'new'  one.
As this is just for ham use getting close is good enough.  I did compare the old one by receiving wwv on 20 MHz and it counted 20 and all 0's and about once a minuet it would drop to 19 and all 9's.  Out of 3 units they are less than 80 HZ high or low from each other at 999 MHz.
I was just going to take the modules out of the parts unit and swap them into a working unit to check them out as the parts unit is missing the power  supply.  I might just take the power supply out of a working unit and put it in the parts box first.  Just wish there were not so many screws.  I am using a battery powered drill to remove them.  I think I have a battery screwdriver around somewhere to put them back in with.
Yes on the 8920 books being almost like the 8924.  The 8924  operation book is almost useless for anything but cell phones.
73

From: "zl1cvd@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Thursday, January 28, 2016 9:45 AM
Subject: [hp8924] Re: board swapping

<!--#yiv2822624106 #yiv2822624106 .yiv2822624106ygrp-photo-title{clear:both;font-size:smaller;height:15px;overflow:hidden;text-align:center;width:75px;}#yiv2822624106 div.yiv2822624106ygrp-photo{background-position:center;background-repeat:no-repeat;background-color:white;border:1px solid black;height:62px;width:62px;}#yiv2822624106 div.yiv2822624106photo-title a, #yiv2822624106 div.yiv2822624106photo-title a:active, #yiv2822624106 div.yiv2822624106photo-title a:hover, #yiv2822624106 div.yiv2822624106photo-title a:visited {text-decoration:none;}#yiv2822624106 div.yiv2822624106attach-table div.yiv2822624106attach-row {clear:both;}#yiv2822624106 div.yiv2822624106attach-table div.yiv2822624106attach-row div {float:left;}#yiv2822624106 p {clear:both;padding:15px 0 3px 0;overflow:hidden;}#yiv2822624106 div.yiv2822624106ygrp-file {width:30px;}#yiv2822624106 div.yiv2822624106attach-table div.yiv2822624106attach-row div div a {text-decoration:none;}#yiv2822624106 div.yiv2822624106attach-table div.yiv2822624106attach-row div div span {font-weight:normal;}#yiv2822624106 div.yiv2822624106ygrp-file-title {font-weight:bold;}#yiv2822624106 --> <!--#yiv2822624106 #yiv2822624106ygrp-mkp {border:1px solid #d8d8d8;font-family:Arial;margin:10px 0;padding:0 10px;}#yiv2822624106 #yiv2822624106ygrp-mkp hr {border:1px solid #d8d8d8;}#yiv2822624106 #yiv2822624106ygrp-mkp #yiv2822624106hd {color:#628c2a;font-size:85%;font-weight:700;line-height:122%;margin:10px 0;}#yiv2822624106 #yiv2822624106ygrp-mkp #yiv2822624106ads {margin-bottom:10px;}#yiv2822624106 #yiv2822624106ygrp-mkp .yiv2822624106ad {padding:0 0;}#yiv2822624106 #yiv2822624106ygrp-mkp .yiv2822624106ad p {margin:0;}#yiv2822624106 #yiv2822624106ygrp-mkp .yiv2822624106ad a {color:#0000ff;text-decoration:none;}-->

Hi ku4pt

I purchased 4 and got 3 going via board swapping, eBay spare board purchases & replacing bad tantalum SMD & electrolytic caps.

Rule #1 - RTFM :-) <- specifically page 73 of the HP 8924C Assembly Level Repair Guide. Or if you want to do it the right way, start from page 49 - Troubleshooting. Also, if you are just going to use the 'repaired' unit for ham radio, you can swap most modules and simply perform the periodic calibration which is outlines on page 113 onwards.You'll need a very accurate digital DC voltmeter/multi-meter, bunch leads & adapters, some attenuators (3dB I think) and a good frequency reference (a 10MHz GPSDO / GPSTM is ideal).

Rule #2 - See rule #1. Actually, these HP manuals can seem disjointed and painful. But I have found them essential for repair. Also pays to remember allot of what is inside the 8920 also is in the 8924. HP also released allot of circuits for the 8920 - again many are relevant to 8924. They called it 8920 Component Level Repair Packet.

73s om de chris zl1cvd

# 2329. Re: [hp8924] Re: board swapping

Yahoo group: hp8924
Date: 2016-01-28 20:02:51 UTC
From: Ralph S. Turk
Topic: 2326  Message: 2329

Chris
Do you have the HP number of the manual you are referencing.
My copy does Not have the information you are indicating.
Thanks
Ralph, W7HSG

----- Original Message -----

From: "zl1cvd@... [hp8924]" <hp8924@yahoogroups.com>
To: "hp8924" <hp8924@yahoogroups.com>
Sent: Thursday, January 28, 2016 7:45:36 AM
Subject: [hp8924] Re: board swapping

Hi ku4pt

I purchased 4 and got 3 going via board swapping, eBay spare board purchases & replacing bad tantalum SMD & electrolytic caps.

Rule #1 - RTFM :-) <- specifically page 73 of the HP 8924C Assembly Level Repair Guide. Or if you want to do it the right way, start from page 49 - Troubleshooting. Also, if you are just going to use the 'repaired' unit for ham radio, you can swap most modules and simply perform the periodic calibration which is outlines on page 113 onwards.You'll need a very accurate digital DC voltmeter/multi-meter, bunch leads & adapters, some attenuators (3dB I think) and a good frequency reference (a 10MHz GPSDO / GPSTM is ideal).

Rule #2 - See rule #1. Actually, these HP manuals can seem disjointed and painful. But I have found them essential for repair. Also pays to remember allot of what is inside the 8920 also is in the 8924. HP also released allot of circuits for the 8920 - again many are relevant to 8924. They called it 8920 Component Level Repair Packet.

73s om de chris zl1cvd

# 2330. Re: [hp8924] Re: board swapping

Yahoo group: hp8924
Date: 2016-01-28 21:33:32 UTC
From: Yuri Ostry
Topic: 2326  Message: 2330

Re: [hp8924] Re: board swapping Hello,

Thursday, January 28, 2016, 18:13:34, Ralph Mowery ku4pt wrote:

?
As this is just for ham use getting close is good enough. ?I did compare the old one by receiving wwv on 20 MHz and it counted 20 and all 0's and about once a minuet it would drop to 19 and all 9's. ?Out of 3 units they are less than 80 HZ high or low from each other at 999 MHz.

I was just going to take the modules out of the parts unit and swap them into a working unit to check them out as the parts unit is missing the power ?supply. ? I might just take the power supply out of a working unit and put it in the parts box first. ?Just wish there were not so many screws.
_'_·_'___

It is a good idea to read calibration EEPROM from "donor" unit to file and write down serial numbers of modules from this unit. It will allow you to restore everything to original condition if something will went wrong. I hope you have some programmer that can work with 28256 parallel EEPROMs. I done this with my own 8920 once I disassembled it first time, but, fortunately, never had need to use this backup. ;)

Actually, there is a way to read out factory cal parameters using built-in IBASIC, and it is not a very big problem to find names of all cal parameters from firmware dump (there is a LOTS of them inside). Some of calibration parameter names is self-explaining, but not so much. I was unable to completely figure out which data is related to which module. Tried to find original factory calibration data cards (provided with factory spares) for at least some of modules to see list of parameters related to particular module, but was not very successful. All I was able to find was cal card for 8920 RCVR SYNTH that already was reformatted after repair and used to store some tests.

--
Best regards,
Yuri ? ? ? ? ? ? ? ? ? ? ? ?mailto:yuri@...

# 2331. Re: [hp8924] Re: board swapping

Yahoo group: hp8924
Date: 2016-01-28 22:29:14 UTC
From: Ralph Mowery
Topic: 2326  Message: 2331

I think this is the number of the manual.

Agilent Technologies08924-90061

From: "'Ralph S. Turk' w7hsg@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924 <hp8924@yahoogroups.com>
Sent: Thursday, January 28, 2016 3:02 PM
Subject: Re: [hp8924] Re: board swapping

# 2332. Re: [hp8924] Re: board swapping

Yahoo group: hp8924
Date: 2016-01-29 04:02:01 UTC
From: wb4yjt@...
Topic: 2326  Message: 2332

Just Google "8920 Component Level Repair Packet".

The first item should be the PDF file that you want.

Interestingly, although most of the info is designated as for the 8920, near the end are some schematics specifically identified as for the 8924. It is assumed that this an updated document, and the "8920" schematics apply to both units.

John K.
==========

# 2333. Re: [hp8924] Re: board swapping

Yahoo group: hp8924
Date: 2016-01-31 21:33:56 UTC
From: wb6dgn_tom@...
Topic: 2326  Message: 2333

The one I found on the Keysight website was 08920-90107, Revision Date: 03-17-06. Is that the one your are referring to or is there another one?

# 2334. Re: [hp8924] Re: board swapping

Yahoo group: hp8924
Date: 2016-01-31 21:54:39 UTC
From: wb4yjt@...
Topic: 2326  Message: 2334

You should have found a PDF file from exodus.poly.edu.

Try Googling " HP 8920 CLIPS.pdf
http://exodus.poly.edu/%7Ekurt/manuals/manuals/HP%20Agilent/HP%208920%20CLIPS.pdf ", if the direct link doesn't work.
That should bring up links to at least two locations for the PDF file.

John K.

# 2335. HP8924 Power Supply Success

Yahoo group: hp8924
Date: 2016-01-31 22:51:50 UTC
From: Mike Besemer
Topic: 2335  Message: 2335

Just wanted to pass along a word of thanks to those who have documented the repair of the HP8924 power supply.

I was disheartened yesterday when -8924 would not power up. Having seen this issue talked about in this forum before, I knew to check the LED on the back of the unit. It was on - but dim - especially compared to my other -8924.

It took a good 15 minutes of screw removal to get the power supply out, but when I did I immediately saw a bit of crusty gunk under C5 on the 15 volt standby control module. I just happened to have an identical capacitor in stock, so I replaced it and the problem was solved. Total time from discovery of the bad -8924 to replace the cap was under an hour.

As long as it's apart, I'm going to blow the dust out of it and look for other leaky caps, but this repair was a snap.

73,

Mike
WM4B

# 2336. Re: [hp8924] HP8924 Power Supply Success

Yahoo group: hp8924
Date: 2016-02-01 00:50:03 UTC
From: Ralph Mowery
Topic: 2335  Message: 2336

They do have a bunch of screws in them.  I just had one out of the case and removed most of the modules to low the dirt out it.  I used a battery powered drill to spin out the screws.  Then a slower battery powered screwdriver  to put them back in.

From: "'Mike Besemer' mwbesemer@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Sunday, January 31, 2016 5:51 PM
Subject: [hp8924] HP8924 Power Supply Success

<!--#yiv5597202372 #yiv5597202372 .yiv5597202372ygrp-photo-title{clear:both;font-size:smaller;height:15px;overflow:hidden;text-align:center;width:75px;}#yiv5597202372 div.yiv5597202372ygrp-photo{background-position:center;background-repeat:no-repeat;background-color:white;border:1px solid black;height:62px;width:62px;}#yiv5597202372 div.yiv5597202372photo-title a, #yiv5597202372 div.yiv5597202372photo-title a:active, #yiv5597202372 div.yiv5597202372photo-title a:hover, #yiv5597202372 div.yiv5597202372photo-title a:visited {text-decoration:none;}#yiv5597202372 div.yiv5597202372attach-table div.yiv5597202372attach-row {clear:both;}#yiv5597202372 div.yiv5597202372attach-table div.yiv5597202372attach-row div {float:left;}#yiv5597202372 p {clear:both;padding:15px 0 3px 0;overflow:hidden;}#yiv5597202372 div.yiv5597202372ygrp-file {width:30px;}#yiv5597202372 div.yiv5597202372attach-table div.yiv5597202372attach-row div div a {text-decoration:none;}#yiv5597202372 div.yiv5597202372attach-table div.yiv5597202372attach-row div div span {font-weight:normal;}#yiv5597202372 div.yiv5597202372ygrp-file-title {font-weight:bold;}#yiv5597202372 --> HP8924 Power Supply Success

Just wanted to pass along a word of thanks to those who have documented the repair of the HP8924 power supply.I was disheartened yesterday when -8924 would not power up.  Having seen this issue talked about in this forum before, I knew to check the LED on the back of the unit.  It was on – but dim – especially compared to my other -8924.  It took a good 15 minutes of screw removal to get the power supply out, but when I did I immediately saw a bit of crusty gunk under C5 on the 15 volt standby control module.  I just happened to have an identical capacitor in stock, so I replaced it and the problem was solved.  Total time from discovery of the bad -8924 to replace the cap was under an hour.  As long as it’s apart, I’m going to blow the dust out of it and look for other leaky caps, but this repair was a snap.73,MikeWM4B

# 2337. RE: [hp8924] HP8924 Power Supply Success

Yahoo group: hp8924
Date: 2016-02-01 00:54:35 UTC
From: Mike Besemer
Topic: 2335  Message: 2337

I just did the same thing… pulled most everything and blew/sucked it clean. I’ve got everything back in it and the inner cover installed. It powers on, boots, and passes self-test, so as soon as I catch my breath I’ll put the cover on and get back to life.

I used my cordless to take all the screws out, but like to put them back in by hand. I’m just thrilled that (for once) it was an easy fix.

73,

Mike
WM4B

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com]
Sent: Sunday, January 31, 2016 7:50 PM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] HP8924 Power Supply Success

They do have a bunch of screws in them. I just had one out of the case and removed most of the modules to low the dirt out it. I used a battery powered drill to spin out the screws. Then a slower battery powered screwdriver to put them back in.

_____
From: "'Mike Besemer' mwbesemer@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Sunday, January 31, 2016 5:51 PM
Subject: [hp8924] HP8924 Power Supply Success

Just wanted to pass along a word of thanks to those who have documented the repair of the HP8924 power supply.
I was disheartened yesterday when -8924 would not power up. Having seen this issue talked about in this forum before, I knew to check the LED on the back of the unit. It was on – but dim – especially compared to my other -8924.
It took a good 15 minutes of screw removal to get the power supply out, but when I did I immediately saw a bit of crusty gunk under C5 on the 15 volt standby control module. I just happened to have an identical capacitor in stock, so I replaced it and the problem was solved. Total time from discovery of the bad -8924 to replace the cap was under an hour.
As long as it’s apart, I’m going to blow the dust out of it and look for other leaky caps, but this repair was a snap.
73,
Mike
WM4B

# 2338. Battery repalcment

Yahoo group: hp8924
Date: 2016-02-02 03:05:35 UTC
From: willard561@...
Topic: 2338  Message: 2338

Has anyone replaced the battery in their HP8924?
Bill

# 2339. Re: [hp8924] Battery repalcment

Yahoo group: hp8924
Date: 2016-02-02 03:42:16 UTC
From: John Kernkamp
Topic: 2338  Message: 2339

It's not too difficult.

The battery is on the board that has the floppy disk on it.

Just take out that board, and the replacement task will be easy.

On Mon, Feb 1, 2016 at 8:05 PM, willard561@... [hp8924] <
hp8924@yahoogroups.com> wrote:

>
>
> Has anyone replaced the battery in their HP8924?
> Bill
>
>
>
>
>
>

# 2340. Re: [hp8924] Battery replacement

Yahoo group: hp8924
Date: 2016-02-02 07:34:31 UTC
From: Robert Atkinson
Topic: 2340  Message: 2340

Hi,
The battery is easy to replace, It's on the memory board that has the PCMCIA Card slot.
it'a 23/A 3.0V (Lithium Manganese Dioxide) These are becoming hard to find, but Mouser stock them for US delivery only. You can find 3.6V Lithium Thionyl Chloride cells in 2/3A, which are fine electrically BUT all the ones I've found had REVERSED POLARITY compared to the 3.0V cells!
Double check when fitting. The CMOS does not hold calibration data so you don't have to use a back-up supply when changing it.

Robert G8RPI

---
On Tue, 2/2/16, willard561@... [hp8924] <hp8924@yahoogroups.com> wrote:

Subject: [hp8924] Battery repalcment
To: hp8924@yahoogroups.com
Date: Tuesday, 2 February, 2016, 3:05

Has anyone replaced the battery in their HP8924?
Bill

# 2341. Output power

Yahoo group: hp8924
Date: 2016-02-06 00:55:19 UTC
From: ku4pt@...
Topic: 2341  Message: 2341

I have 2 of the 8924Cs. Testing them against each other I have noticed that when sending power out of either the duplex port or the RF IN/OUT port that the measured power will stop at one point but the display will keep on going for another 5 to 10 dbm. That is the measured output will stop going up at 4 dbm but the display of the driving unit will keep going to about 18 dbm.

Both units seem to do about the same. At first I thought it might be because I replaced the input from a 3 watt unit to a 60 watt unit and used the calibration card to reset the first unit I had. However both units do the same thing and driving from the duplex out ports do the same thing.

Is this normal ?

# 2342. Re: [hp8924] Output power

Yahoo group: hp8924
Date: 2016-02-06 01:31:22 UTC
From: Yuri Ostry
Topic: 2341 Message: 2342

Re: [hp8924] Output power Hello,

Saturday, February 6, 2016, 3:55:19, KU4PT wrote:

?
I have 2 of the 8924Cs. ?Testing them against each other I have noticed that when sending power out of either the duplex port or the RF IN/OUT port that the measured power will stop at one point but the display will keep on going for another 5 to 10 dbm. ?That is ?the measured output will stop going up at 4 dbm but the display of the driving unit will keep going to about 18 dbm. ?

Both units seem to do about the same. ?At first I thought it might be because I replaced the input from a 3 watt unit to a 60 watt unit and used the calibration card to reset the first unit I had. ?However both units do the same thing and driving from the duplex out ports do the same thing.

Is this normal ?

My 8920A does the same thing. Every time I need signal levels over 0 dBm, I check actual level that can be obtained with my Rigol SA. Then I think about writing it down somewhere together with amplitude corrections below 30 MHz (my unit is with electronic attenuator) to avoid extra work next time... And it was never done because I forgetting about it every time. ;)

73 de UA3ATQ / KI7XJ

--
Best regards,
Yuri ? ? ? ? ? ? ? ? ? ? ? ? ? ?mailto:yuri@...

# 2343. Re: [hp8924] Output power

Yahoo group: hp8924
Date: 2016-02-06 09:31:08 UTC
From: Robert Atkinson
Topic: 2341  Message: 2343

Hi,The specification for the 8924C signal generator output is -10.5dBm for the RF IN/OUT port and +3.5dBm for the Duplex/RF out only port. Any setting beyond these levels is uncalibrated.Just because you can set it does not mean it's within specification.
Robert G8RPI.

From: "ku4pt@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Saturday, 6 February 2016, 0:55
Subject: [hp8924] Output power

I have 2 of the 8924Cs. Testing them against each other I have noticed that when sending power out of either the duplex port or the RF IN/OUT port that the measured power will stop at one point but the display will keep on going for another 5 to 10 dbm. That is the measured output will stop going up at 4 dbm but the display of the driving unit will keep going to about 18 dbm.
Both units seem to do about the same. At first I thought it might be because I replaced the input from a 3 watt unit to a 60 watt unit and used the calibration card to reset the first unit I had. However both units do the same thing and driving from the duplex out ports do the same thing.
Is this normal ?

# 2344. Re: [hp8924] Output power

Yahoo group: hp8924
Date: 2016-02-06 10:05:15 UTC
From: Ralph Mowery
Topic: 2341  Message: 2344

Thanks Robert.
I knew the specifications for the output were below what the 8924C  was showing up on the display.  It just seemed odd to me that it would let me set it for a value that was out of range.  Especially if I go way high it gives me a warning.  I thought I may have been missing something like the way it shows how to do a power offset on the configuration screen or maybe when I did the update to the software when I put in the upgrade to the 60 watt atteunatior in one of the 8924Cs.  73

From: "Robert Atkinson robert8rpi@... [hp8924]" <hp8924@yahoogroups.com>
To: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
Sent: Saturday, February 6, 2016 4:31 AM
Subject: Re: [hp8924] Output power

<!--

# 2345. Rf in/out port over power e8285a

Yahoo group: hp8924
Date: 2016-02-11 05:46:12 UTC
From: k0uc@...
Topic: 2345  Message: 2345

I may have inadvertently transmitted too much power to the RF in/out at some pont.

Symptoms are that output from the port is like 20dB low and it reads rf input too low. Like mW for a couple watts in.
Everything else seems ok.

Is there an RF fuse on that port? Seems like like that's what might be going on

Brady

# 2346. Re: [hp8924] Rf in/out port over power e8285a

Yahoo group: hp8924
Date: 2016-02-11 07:51:03 UTC
From: Peter Lowmass
Topic: 2345  Message: 2346

Hi Brady.

I find this is not uncommon ( to input too much power ). It sounds like you have fried the components in the input module.

You can replace the surface mount components if you have the tools.

Compare the input between the rf in out to the duplex input. They should give you similar readings. If not then you need to do the above repair.

Regards

Peter.

> On 11 Feb 2016, at 5:46 AM, k0uc@... [hp8924] <hp8924@yahoogroups.com> wrote:
>
> I may have inadvertently transmitted too much power to the RF in/out at some pont.
>
> Symptoms are that output from the port is like 20dB low and it reads rf input too low. Like mW for a couple watts in.
> Everything else seems ok.
>
> Is there an RF fuse on that port? Seems like like that's what might be going on
>
> Brady
>
>

# 2347. Re: [hp8924] Rf in/out port over power e8285a

Yahoo group: hp8924
Date: 2016-02-11 20:20:16 UTC
From: Ralph Mowery
Topic: 2345  Message: 2347

I don't know about the 8285 but if it is like the other HPs of the same type such as the 8924 there is an atteunatior between the RF in/out port.  If so sounds like it is blown. It is about the size of a postage stamp and maybe as thick as two or 3 coins.

From: "k0uc@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Thursday, February 11, 2016 12:46 AM
Subject: [hp8924] Rf in/out port over power e8285a

I may have inadvertently transmitted too much power to the RF in/out at some pont.

Symptoms are that output from the port is like 20dB low and it reads rf input too low.
Like mW for a couple watts in.
Everything else seems ok.

Is there an RF fuse on that port?  Seems like like that's what might be going on

Brady

# 2348. Re: [hp8924] Rf in/out port over power e8285a

Yahoo group: hp8924
Date: 2016-02-11 23:53:46 UTC
From: k0uc
Topic: 2345  Message: 2348

Thanks Ralph.  That would match with the symptoms.
Then all you have to do is find a replacement and install it.  ;)
I'll be glad if that's all it is.
Shipping the E8285a beast to be repaired is risky and spendy.  Hope it's something I can repair.
Once I do get it repaired some sort of external attenuator is going to go on that port permanently to prevent this in the future.
Brady

Sent from my Sprint Samsung Galaxy® Note 4.

-------- Original message --------
From: "Ralph Mowery ku4pt@yahoo.com [hp8924]" <hp8924@yahoogroups.com>
Date: 2/11/2016 14:20 (GMT-06:00)
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Rf in/out port over power e8285a

I don't know about the 8285 but if it is like the other HPs of the same type such as the 8924 there is an atteunatior between the RF in/out port.  If so sounds like it is blown. It is about the size of a postage stamp and maybe as thick as two or 3 coins.

From: "k0uc@gmx.com [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Thursday, February 11, 2016 12:46 AM
Subject: [hp8924] Rf in/out port over power e8285a

I may have inadvertently transmitted too much power to the RF in/out at some pont.

Symptoms are that output from the port is like 20dB low and it reads rf input too low.
Like mW for a couple watts in.
Everything else seems ok.

Is there an RF fuse on that port?  Seems like like that's what might be going on

Brady

# 2349. Re: [hp8924] Rf in/out port over power e8285a

Yahoo group: hp8924
Date: 2016-02-12 00:13:48 UTC
From: Ralph Mowery
Topic: 2345  Message: 2349

You might try Amtronix and see what they say and if they might have the atteunator  if it actually does have one.
http://www.amtronix.com/

Yes, it is expensive to ship one of the service monitors.
From: "k0uc k0uc@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Thursday, February 11, 2016 6:53 PM
Subject: Re: [hp8924] Rf in/out port over power e8285a

<!--#yiv1312015293 #yiv1312015293 .yiv1312015293ygrp-photo-title{clear:both;font-size:smaller;height:15px;overflow:hidden;text-align:center;width:75px;}#yiv1312015293 div.yiv1312015293ygrp-photo{background-position:center;background-repeat:no-repeat;background-color:white;border:1px solid black;height:62px;width:62px;}#yiv1312015293 div.yiv1312015293photo-title a, #yiv1312015293 div.yiv1312015293photo-title a:active, #yiv1312015293 div.yiv1312015293photo-title a:hover, #yiv1312015293 div.yiv1312015293photo-title a:visited {text-decoration:none;}#yiv1312015293 div.yiv1312015293attach-table div.yiv1312015293attach-row {clear:both;}#yiv1312015293 div.yiv1312015293attach-table div.yiv1312015293attach-row div {float:left;}#yiv1312015293 p {clear:both;padding:15px 0 3px 0;overflow:hidden;}#yiv1312015293 div.yiv1312015293ygrp-file {width:30px;}#yiv1312015293 div.yiv1312015293attach-table div.yiv1312015293attach-row div div a {text-decoration:none;}#yiv1312015293 div.yiv1312015293attach-table div.yiv1312015293attach-row div div span {font-weight:normal;}#yiv1312015293 div.yiv1312015293ygrp-file-title {font-weight:bold;}#yiv1312015293 -->

Thanks Ralph.  That would match with the symptoms.
Then all you have to do is find a replacement and install it.  ;)
I'll be glad if that's all it is.
Shipping the E8285a beast to be repaired is risky and spendy.  Hope it's something I can repair.
Once I do get it repaired some sort of external attenuator is going to go on that port permanently to prevent this in the future.
Brady

# 2350. Re: [hp8924] Rf in/out port over power e8285a

Yahoo group: hp8924
Date: 2016-02-12 07:24:05 UTC
From: Robert Atkinson
Topic: 2345  Message: 2350

---
On Thu, 11/2/16, k0uc k0uc@gmx.com [hp8924] <hp8924@yahoogroups.com> wrote:

Subject: Re: [hp8924] Rf in/out port over power e8285a
To: hp8924@yahoogroups.com
Date: Thursday, 11 February, 2016, 23:53

Hi,
on the 8920 and 892x the power attenuator is a module separate to the input module. It has a "fir tree" heatsink and sits on the lefthand side of these test sets. Take the cover off and trace the coax from the RF in/out. Hopefully it's just the attenuator, but very high power can damage the front end before the power attenuator smokes. If the diplexer input is OK there is good chance it's just the power attenuator.

Robert G8RPI.

Thanks Ralph.  That would match with the
symptoms.
Then all
you have to do is find a replacement and install it.
 ;)
I'll be glad
if that's all it is.
Shipping the E8285a beast to be
repaired is risky and spendy.  Hope it's something I
can repair.
Once I do
get it repaired some sort of external attenuator is going to
go on that port permanently to prevent this in the
future.
Brady

Sent from my Sprint
Samsung Galaxy® Note 4.

-------- Original message --------
From: "Ralph Mowery ku4pt@...
[hp8924]" <hp8924@yahoogroups.com>
Date: 2/11/2016 14:20 (GMT-06:00)
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Rf in/out port over power
e8285a

I
don't know about the 8285 but if it is like the other
HPs of the same type such as the  8924 there is an
atteunatior between the RF in/out port.  If so sounds like

it is blown.  It is about the size of a postage stamp and
maybe as thick as two or 3 coins.

From:
"k0uc@... [hp8924]"
<hp8924@yahoogroups.com>
To:
hp8924@yahoogroups.com
Sent: Thursday,
February 11, 2016 12:46 AM
Subject: [hp8924] Rf
in/out port over power e8285a

I may have inadvertently transmitted too much
power to the RF in/out at some pont.

Symptoms are that output from the port is like
20dB low and it reads rf input too low.  Like mW for a
couple watts in.
Everything else seems
ok.

Is there an RF fuse on
that port?  Seems like like that's what might be going
on

Brady

# 2351. Re: Rf in/out port over power e8285a

Yahoo group: hp8924
Date: 2016-02-12 09:12:28 UTC
From: zl1cvd@...
Topic: 2345  Message: 2351

The front end of the E8285A is not internally like the 892x series. There is no separate RF attenuator. It is built into RF I/O module (E8285-61856 or E8285-61860). Refer Agilent Assembly Level Repair Guide - page 254 for block diagram. Sorry to say but looks like you have cooked the power slitter. Also sorry to say but I don't think simply replacing the cooked resistors will get it up and running 'accurately' again for lab use - without a proper HP calibration. However I would think you should be able to get er up and running OK for HAM radio use.
Have a hunt on fleabay for a parts unit. I picked one up for under US$200 - quite a few out there with crook power supplies or plasma screens. 73s om de chris zl1cvd.

# 2352. Re: Rf in/out port over power e8285a

Yahoo group: hp8924
Date: 2016-02-12 13:37:58 UTC
From: george@...
Topic: 2345  Message: 2352

Brady, do you have the "Assembly Level Repair" manual E8285-90033? And/or have you tried the SERVICE7 RF Diagnostics? Crazy thought, did anything change on the units configuration screen? Output port and input port at 0.0..??

Also, there is a difference between the RF IN/OUT and Duplex OUT and RF IN/OUT and Ant IN. Mine is like 10db difference, though I only briefly used the unit before packing it to move to a different home. It might be other than 10db, maybe 22. But it's noticeably different. Ex. Antenna connected to RF IN/OUT and receiver set to NOAA WX. Somewhat noisy. Move ant to Ant IN, full quieting. The service info shows some attenuators and internal paths having about 10db difference. (page 254)

How much power did you get into it. That port is rated 2.5 Watts. Ant IN can't see any appreciable power level, over power there will give an alarm.
Also note the RF I/O assembly, where the attenuator lives, is on the bottom. Turn it over and looking at the front panel it's the long assembly on the right. Coax relay to its right in the back.

You may have all this info, but in case you didn't...

GeorgeC
W2DB
Toms River, NJ

PS, after typing all that I see Chris ZL1CVD wrote similar stuff...and he's the expert on these units. ;)

# 2353. RE: [hp8924] Re: Rf in/out port over power e8285a

Yahoo group: hp8924
Date: 2016-02-12 14:48:40 UTC
From: k0uc
Topic: 2345  Message: 2353

George and Chris...I see in the manual the power splitter and suspect its that or the relay.  And it sounds like maybe(?) It isn't a too terrible to get at the RF I O board.  I don't really care about measuring RF levels so much, so I may be able to get by without that  RF port completely for now.
And yes..it is just a hobby unit for me so lab accuracy isn't necessary.
I just ordered a 20dB 25watt attenuator to use from now on as protection on the duplex port.

Thanks to everyone. ..great group here!73 BradyK0UC

Sent from my Sprint Samsung Galaxy® Note 4.

-------- Original message --------
From: "george@dyb.com [hp8924]" <hp8924@yahoogroups.com>
Date: 2/12/2016 07:37 (GMT-06:00)
To: hp8924@yahoogroups.com
Subject: [hp8924] Re: Rf in/out port over power e8285a

Brady, do you have the "Assembly Level Repair" manual E8285-90033? And/or have you tried the SERVICE7 RF Diagnostics? Crazy thought, did anything change on the units configuration screen? Output port and input port at 0.0..??
Also, there is a difference between the RF IN/OUT and Duplex OUT and RF IN/OUT and Ant IN. Mine is like 10db difference, though I only briefly used the unit before packing it to move to a different home. It might be other than 10db, maybe 22.  But it's noticeably different. Ex. Antenna connected to RF IN/OUT and receiver set to NOAA WX. Somewhat noisy. Move ant to Ant IN, full quieting. The service info shows some attenuators and internal paths having about 10db difference. (page 254)
How much power did you get into it. That port is rated 2.5 Watts. Ant IN can't see any appreciable power level, over power there will give an alarm. Also note the RF I/O assembly, where the attenuator lives, is on the bottom. Turn it over and looking at the front panel it's the long assembly on the right. Coax relay to its right in the back.
You may have all this info, but in case you didn't...
GeorgeCW2DBToms River, NJ
PS, after typing all that I see Chris ZL1CVD wrote similar stuff...and he's the expert on these units. ;)

# 2354. RE: [hp8924] Re: Rf in/out port over power e8285a

Yahoo group: hp8924
Date: 2016-02-12 23:20:59 UTC
From: k0uc
Topic: 2345  Message: 2354

So other than measuring power, when is the RF in/out port essential?  I can pad down the Antenna port for inputs is needed. I may try to live without it.  The other 2 ports seem to cover my needs
Also..to remove the bottom cover of the E8285A. .. remove all 20+ screws on the bottom panel or do you need to do other disassembly first?
Brady

Sent from my Sprint Samsung Galaxy® Note 4.

-------- Original message --------
From: "k0uc k0uc@gmx.com [hp8924]" <hp8924@yahoogroups.com>
Date: 2/12/2016 08:48 (GMT-06:00)
To: hp8924@yahoogroups.com
Subject: RE: [hp8924] Re: Rf in/out port over power e8285a

George and Chris...I see in the manual the power splitter and suspect its that or the relay.  And it sounds like maybe(?) It isn't a too terrible to get at the RF I O board.  I don't really care about measuring RF levels so much, so I may be able to get by without that  RF port completely for now.
And yes..it is just a hobby unit for me so lab accuracy isn't necessary.
I just ordered a 20dB 25watt attenuator to use from now on as protection on the duplex port.

Thanks to everyone. ..great group here!73 BradyK0UC

Sent from my Sprint Samsung Galaxy® Note 4.

-------- Original message --------
From: "george@dyb.com [hp8924]" <hp8924@yahoogroups.com>
Date: 2/12/2016 07:37 (GMT-06:00)
To: hp8924@yahoogroups.com
Subject: [hp8924] Re: Rf in/out port over power e8285a

Brady, do you have the "Assembly Level Repair" manual E8285-90033? And/or have you tried the SERVICE7 RF Diagnostics? Crazy thought, did anything change on the units configuration screen? Output port and input port at 0.0..??
Also, there is a difference between the RF IN/OUT and Duplex OUT and RF IN/OUT and Ant IN. Mine is like 10db difference, though I only briefly used the unit before packing it to move to a different home. It might be other than 10db, maybe 22.  But it's noticeably different. Ex. Antenna connected to RF IN/OUT and receiver set to NOAA WX. Somewhat noisy. Move ant to Ant IN, full quieting. The service info shows some attenuators and internal paths having about 10db difference. (page 254)
How much power did you get into it. That port is rated 2.5 Watts. Ant IN can't see any appreciable power level, over power there will give an alarm. Also note the RF I/O assembly, where the attenuator lives, is on the bottom. Turn it over and looking at the front panel it's the long assembly on the right. Coax relay to its right in the back.
You may have all this info, but in case you didn't...

GeorgeCW2DBToms River, NJ
PS, after typing all that I see Chris ZL1CVD wrote similar stuff...and he's the expert on these units. ;)

# 2355. Fw: important message

Yahoo group: hp8924
Date: 2016-02-27 12:19:17 UTC
From: <mike@...>
Topic: 2355  Message: 2355

```
Hello!

New message, please read <http://esportskart.com/going.php?q>

mike@...
```

# 2356. Re: [hp8924] Fw: important message

Yahoo group: hp8924
Date: 2016-02-27 13:59:27 UTC
From: John Kernkamp
Topic: 2355  Message: 2356

SPAM!

PLEASE BLOCK!

On Sat, Feb 27, 2016 at 5:19 AM, mike@ozborncommunications.com [hp8924] <
hp8924@yahoogroups.com> wrote:

>
>
> Hello!
>
>
>
> *New message, please read* http://esportskart.com/going.php
> <http://esportskart.com/going.php?q>
>
>
>
> mike@...
>
>
>
>

# 2357. 100 watt input conversion

Yahoo group: hp8924
Date: 2016-03-10 18:05:00 UTC
From: ku4pt@...
Topic: 2357  Message: 2357

Just wanted to thank the person that put in the files of how to change the 3 watt input to a 100 watt input.

I had one 8924c that I converted several years ago. I paid about $ 200 for the chip and 'rent' on the card to program it for 60 watts.

I bought a 20 db 100 watt chip for about $ 25 and someone had already put in the files section the program to program up a memory card like I have to do the conversion.

From what I read years back I think to make it a true 100 watt unit I would need to change the heat sink,but for a very short test it should be ok as the 60 watt unit is rated for around 100 watts for a few seconds out of every minute.

Checking the two units from about 30 to 1000 mhz they track to less than 1 db on the in/out port over much of the range.

# 2358. 8924C and 8922S board swapping

Yahoo group: hp8924
Date: 2016-03-18 23:14:46 UTC
From: ku4pt@...
Topic: 2358  Message: 2358

Is the spectrum analyzer of the 8924C and 8922S the same or different ? I have a parts unit of the 8924 that seems to work except it does not have a power supply (swapped in one from a good 8924 to test).

I have a 8922s that works but does not have the spectrum analyzer module. Before I remove the '500' screws to fine out if they will interchange someone make know and save me the effort if they won't.

I looked at some parts lists and seems some modules will and some may not.

# 2359. Re: 8924C and 8922S board swapping

Yahoo group: hp8924
Date: 2016-03-19 09:29:14 UTC
From: zl1cvd@...
Topic: 2358  Message: 2359

Just looked up my notes and see I stripped the spec analyzer module from an 8922 (HP# 08922-61045) and fitted it to a E8285A and it worked OK. It wasn't an 8922S but I suspect the S makes no difference to this discussion anyway - probably just some GSM front panel layout and other GSM related differences. From memory, and not notes, there were some bandwidth differences but I can't exactly recall if this was an issue or not. Internally, the E8285A and 8924C are very similar - they do use exactly the same spec analyzer module (HP# 08920-61101). So yep, get screwing :-) 73s de chris zl1cvd.

# 2360. Re: [hp8924] Re: 8924C and 8922S board swapping

Yahoo group: hp8924
Date: 2016-03-19 15:59:35 UTC
From: Ralph Mowery
Topic: 2358  Message: 2360

Thanks for the info.  I put the SA from the 8924c into the 8922s.  It fits fine and now lets the SA screen come up, but give an error code of 242 , self calibration failed, whatever that means.
There is no trace across the screen like I think it should be, but it seems to have all the functions , but nothing works.  I will have to look at it some more.  It could be that module is bad, but I am not going to swap it with another I have that is in a working 8924c due to all the screws.Atleast the parts 8924 did not have but 2 screws holding the outer case on.

From: "zl1cvd@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Saturday, March 19, 2016 5:29 AM
Subject: [hp8924] Re: 8924C and 8922S board swapping

<!--#yiv7536064176 #yiv7536064176 .yiv7536064176ygrp-photo-title{clear:both;font-size:smaller;height:15px;overflow:hidden;text-align:center;width:75px;}#yiv7536064176 div.yiv7536064176ygrp-photo{background-position:center;background-repeat:no-repeat;background-color:white;border:1px solid black;height:62px;width:62px;}#yiv7536064176 div.yiv7536064176photo-title a, #yiv7536064176 div.yiv7536064176photo-title a:active, #yiv7536064176 div.yiv7536064176photo-title a:hover, #yiv7536064176 div.yiv7536064176photo-title a:visited {text-decoration:none;}#yiv7536064176 div.yiv7536064176attach-table div.yiv7536064176attach-row {clear:both;}#yiv7536064176 div.yiv7536064176attach-table div.yiv7536064176attach-row div {float:left;}#yiv7536064176 p {clear:both;padding:15px 0 3px 0;overflow:hidden;}#yiv7536064176 div.yiv7536064176ygrp-file {width:30px;}#yiv7536064176 div.yiv7536064176attach-table div.yiv7536064176attach-row div div a {text-decoration:none;}#yiv7536064176 div.yiv7536064176attach-table div.yiv7536064176attach-row div div span {font-weight:normal;}#yiv7536064176 div.yiv7536064176ygrp-file-title {font-weight:bold;}#yiv7536064176 --> <!--#yiv7536064176 #yiv7536064176ygrp-mkp {border:1px solid #d8d8d8;font-family:Arial;margin:10px 0;padding:0 10px;}#yiv7536064176 #yiv7536064176ygrp-mkp hr {border:1px solid #d8d8d8;}#yiv7536064176 #yiv7536064176ygrp-mkp #yiv7536064176hd {color:#628c2a;font-size:85%;font-weight:700;line-height:122%;margin:10px 0;}#yiv7536064176 #yiv7536064176ygrp-mkp #yiv7536064176ads {margin-bottom:10px;}#yiv7536064176 #yiv7536064176ygrp-mkp .yiv7536064176ad {padding:0 0;}#yiv7536064176 #yiv7536064176ygrp-mkp .yiv7536064176ad p {margin:0;}#yiv7536064176 #yiv7536064176ygrp-mkp .yiv7536064176ad a {color:#0000ff;text-decoration:none;}-->

Just looked up my notes and see I stripped the spec analyzer module from an 8922 (HP# 08922-61045) and fitted it to a E8285A and it worked OK. It wasn't an 8922S but I suspect the S makes no difference to this discussion anyway - probably just some GSM front panel layout and other GSM related differences. From memory, and not notes, there were some bandwidth differences but I can't exactly recall if this was an issue or not. Internally, the E8285A and 8924C are very similar - they do use exactly the same spec analyzer module (HP# 08920-61101). So yep, get screwing :-) 73s de chris zl1cvd.

Posted by: zl1cvd@...

# 2361. HP 8924C Power Supply

Yahoo group: hp8924
Date: 2016-03-22 15:06:27 UTC
From: Randy B.
Topic: 2358  Message: 2361

I am new to this group and want to thank the moderator for allowing me here. I have the HP8924C that I hope has just a power supply problem. It worked flawlessly for years and then due to a broken or burned neutral wire in the power cord, it must have got caught in a ground loop shenanigan of some kind.
My question: is there a way I can test the supply or is there a common element that fails that I can replace? Everyone I have talked to says it is a bad capacitor but the ESR meter can’t find one. Any tips or advice appreciated. I’m not comfortable working on this unless there could be a simple remedy or check. I’m using my COM3010 at the moment so I’m in no big rush.

Randy B.

# 2362. Re: [hp8924] HP 8924C Power Supply

Yahoo group: hp8924
Date: 2016-03-22 15:08:42 UTC
From: mwbesemer
Topic: 2358  Message: 2362

Can you describe the problem?? Is the green LED in the back lit?? You can see it from the back of the instrument.

Mike - WM4B

On March 22, 2016 at 11:06 AM "'Randy B.' brumback@... [hp8924]" wrote:

?

I am new to this group and want to thank the moderator for allowing me here.? I have the HP8924C that I hope has just a power supply problem.? It worked flawlessly for years and then due to a broken or burned neutral wire in the power cord, it must have got caught in a ground loop shenanigan of some kind.0;
My question: is there a way I can test the supply or is there a common element that fails that I can replace?? Everyone I have talked to says it is a bad capacitor but the ESR meter can’t find one.? Any tips or advice appreciated.? I’m not comfortable working on this unless there could be a simple remedy or check. I’m using my COM3010 at the moment so I’m in no big rush.

Randy B.

?

?

# 2363. Re: 8924C and 8922S board swapping

Yahoo group: hp8924
Date: 2016-03-22 22:52:29 UTC
From: jyelmgren@...
Topic: 2358  Message: 2363

the cap that usually fails is on a daughter card toward the rear of the unit .

It is the standby supply the keeps the OCXO warm and brings up the main supply through the on-off switch.

It should have a green LED in the back if it's even close to working

# 2364. RE: [hp8924] Re: 8924C and 8922S board swapping

Yahoo group: hp8924
Date: 2016-03-22 23:03:04 UTC
From: mwbesemer
Topic: 2358  Message: 2364

Be careful in using the green led to troubleshoot. Mine was lit but not very brightly. I might not have noticed if I hadn't had two monitors sitting on top of one another so it was easy to tell the difference.
If the green LED is completely out you may have a bad capacitor.  BUT just because it iss lit doesn't necessarily mean the capacitor is good.
MikeWM4B

Sent from my Verizon Wireless 4G LTE smartphone

-------- Original message --------
From: "jyelmgren@cinci.rr.com [hp8924]" <hp8924@yahoogroups.com>
Date: 03/22/2016 6:52 PM (GMT-05:00)
To: hp8924@yahoogroups.com
Subject: [hp8924] Re: 8924C and 8922S board swapping

the cap that usually fails is on a daughter card toward the rear of the unit .
It is the standby supply the keeps the OCXO  warm and brings up the main supply through the on-off switch.
It should have a green LED in the back if it's even close to working

# 2365. RE: [hp8924] HP 8924C Power Supply

Yahoo group: hp8924
Date: 2016-03-23 21:57:41 UTC
From: Randy B.
Topic: 2358  Message: 2365

Mike, the green light is NOT on. The whole thing appears dead. The switch has a good feel as it always did so I didn’t think it was the problem.

Randy

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com]
Sent: Tuesday, March 22, 2016 11:09 AM
To: hp8924
Subject: Re: [hp8924] HP 8924C Power Supply

Can you describe the problem? Is the green LED in the back lit? You can see it from the back of the instrument.

Mike - WM4B

On March 22, 2016 at 11:06 AM "'Randy B.' brumback@prtcnet.org [hp8924]" <hp8924@yahoogroups.com> wrote:

I am new to this group and want to thank the moderator for allowing me here. I have the HP8924C that I hope has just a power supply problem. It worked flawlessly for years and then due to a broken or burned neutral wire in the power cord, it must have got caught in a ground loop shenanigan of some kind.
My question: is there a way I can test the supply or is there a common element that fails that I can replace? Everyone I have talked to says it is a bad capacitor but the ESR meter can’t find one. Any tips or advice appreciated. I’m not comfortable working on this unless there could be a simple remedy or check. I’m using my COM3010 at the moment so I’m in no big rush.

Randy B.

# 2366. RE: [hp8924] HP 8924C Power Supply

Yahoo group: hp8924
Date: 2016-03-23 22:12:20 UTC
From: Mike Besemer
Topic: 2358  Message: 2366

From message 2335 on 31 Jan 16:

“Just wanted to pass along a word of thanks to those who have documented the repair of the HP8924 power supply.

I was disheartened yesterday when -8924 would not power up. Having seen this issue talked about in this forum before, I knew to check the LED on the back of the unit. It was on – but dim – especially compared to my other -8924.

It took a good 15 minutes of screw removal to get the power supply out, but when I did I immediately saw a bit of crusty gunk under C5 on the 15 volt standby control module. I just happened to have an identical capacitor in stock, so I replaced it and the problem was solved. Total time from discovery of the bad -8924 to replace the cap was under an hour.

As long as it’s apart, I’m going to blow the dust out of it and look for other leaky caps, but this repair was a snap.

73,

Mike
WM4B"

Take a look. If you can use hand tools and solder, you can fix it.

Mike
WM4B

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com]
Sent: Wednesday, March 23, 2016 5:58 PM
To: hp8924@yahoogroups.com
Subject: RE: [hp8924] HP 8924C Power Supply

Mike, the green light is NOT on. The whole thing appears dead. The switch has a good feel as it always did so I didn’t think it was the problem.
Randy

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com]
Sent: Tuesday, March 22, 2016 11:09 AM
To: hp8924
Subject: Re: [hp8924] HP 8924C Power Supply

Can you describe the problem? Is the green LED in the back lit? You can see it from the back of the instrument.

Mike - WM4B

On March 22, 2016 at 11:06 AM "'Randy B.' brumback@... [hp8924]" <hp8924@yahoogroups.com> wrote:

I am new to this group and want to thank the moderator for allowing me here. I have the HP8924C that I hope has just a power supply problem. It worked flawlessly for years and then due to a broken or burned neutral wire in the power cord, it must have got caught in a ground loop shenanigan of some kind.
My question: is there a way I can test the supply or is there a common element that fails that I can replace? Everyone I have talked to says it is a bad capacitor but the ESR meter can’t find one. Any tips or advice appreciated. I’m not comfortable working on this unless there could be a simple remedy or check. I’m using my COM3010 at the moment so I’m in no big rush.
Randy B.

# 2367. RE: [hp8924] HP 8924C Power Supply

Yahoo group: hp8924
Date: 2016-03-29 07:18:24 UTC
From: w4lxe@...
Topic: 2358  Message: 2367

Hello group,

This unit does not power up and no ventilation fans are heard when in the ON position.
The rear green LED light is on.
The Standby +15 volts is present.
The ON/OFF pin on J11 of the power supply registers 0 volts in the OFF position and 7.8 volts in the on position. Are these values correct?
With the cover removed, a very low tick or click sound in heard in the power supply which seems to be coming from around the center of the power supply main board with a frequency of one click per second when in the ON position.

I can’t find the schematic for this unit anywhere. I do have the Service Manual which only depicts the power supply A23 pinout.

Please advice as to where I can find or purchase the schematics for the HP 8924C and if anyone in the group experienced this issue, how it resolved.

I appreciate and thank the group in advance for any help you may offer.

Best regards,

# 2368. RE: [hp8924] HP 8924C Power Supply

Yahoo group: hp8924
Date: 2016-03-29 10:42:48 UTC
From: mwbesemer mwbesemer
Topic: 2358  Message: 2368

I don't believe anyone has ever found a full schematic for the power supply.?

In my case, the LED was lit, but was dimmer than usual.? I doubt that I'd have noticed the dimness in normal room lighting had I not had another -8924 sitting on top of it to compare it to.? If you have a scope, check the standby voltage for ripple.

Mike - WM4B

On March 29, 2016 at 3:18 AM "w4lxe@... [hp8924]" <;hp8924@yahoogroups.com> wrote:

?

Hello group,

?

This unit does not power up and no ventilation fans are heard when in the ON position.

The rear green LED light is on.

The Standby +15 volts is present.

The ON/OFF pin on J11 of the power supply registers 0 volts in the OFF position and 7.8 volts in the on position. Are these values correct?

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?

I can’t find the schematic for this unit anywhere. I do have the Service Manual which only depicts the power supply A23 pinout.

?

Please advice as to where I can find or purchase the schematics for the HP 8924C and if anyone in the group experienced this issue, how it resolved.

?

I appreciate and thank the group in advance for any help you may offer.

?;

Best regards,

?

?

# 2369. 2016-March-29 19:07:45

Yahoo group: hp8924
Date: 2016-03-29 11:16:46 UTC
From: Peter Lowmass
Topic: 2369  Message: 2369
Attachments: 1 described; binary payloads are missing from this source WARC

Hi,
Found this on the net and I thought it may be of use.
De, Vk6aaj

# 2370. Re: [hp8924] 2016-March-29 19:07:45 [1 Attachment]

Yahoo group: hp8924
Date: 2016-03-29 18:13:28 UTC
From: <w4lxe@...>
Topic: 2369  Message: 2370

Hello Peter,

Thank you very much.

Best regards,

Jose Hernandez

From: mailto:hp8924@yahoogroups.com
Sent: Tuesday, March 29, 2016 7:16 AM
To: mailto:hp8924@yahoogroups.com
Subject: [hp8924] 2016-March-29 19:07:45 [1 Attachment]

[Attachment(s) from Peter Lowmass included below]

Hi,
Found this on the net and I thought it may be of use.
De, Vk6aaj

---

---
This email has been checked for viruses by Avast antivirus software.
https://www.avast.com/antivirus

# 2371. Re: [hp8924] HP 8924C Power Supply

Yahoo group: hp8924
Date: 2016-03-29 18:17:58 UTC
From: <w4lxe@...>
Topic: 2358  Message: 2371

Hello Mike,

No ripple, Standby supply is solid. The rest of the supply tries to kick on, this can be seen when the output voltages start to raise on every clicking sound per second. Each click is an attempt to turn on. Something is throwing it into protection mode.

Thank you very much.

Best regards,

Jose Hernandez

From: mailto:hp8924@yahoogroups.com
Sent: Tuesday, March 29, 2016 6:42 AM
To: hp8924
Subject: RE: [hp8924] HP 8924C Power Supply

I don't believe anyone has ever found a full schematic for the power supply.

In my case, the LED was lit, but was dimmer than usual. I doubt that I'd have noticed the dimness in normal room lighting had I not had another -8924 sitting on top of it to compare it to. If you have a scope, check the standby voltage for ripple.

Mike - WM4B

On March 29, 2016 at 3:18 AM "w4lxe@... [hp8924]" <hp8924@yahoogroups.com> wrote:

Hello group,
This unit does not power up and no ventilation fans are heard when in the ON position.
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With the cover removed, a very low tick or click sound in heard in the power supply which seems to be coming from around the center of the power supply main board with a frequency of one click per second when in the ON position.
I can’t find the schematic for this unit anywhere. I do have the Service Manual which only depicts the power supply A23 pinout.
Please advice as to where I can find or purchase the schematics for the HP 8924C and if anyone in the group experienced this issue, how it resolved.
I appreciate and thank the group in advance for any help you may offer.
Best regards,

---
This email has been checked for viruses by Avast antivirus software.
https://www.avast.com/antivirus

# 2372. FS: NEW 6 KHz Band Pass Filter for 8920A/B (?8924?)

Yahoo group: hp8924
Date: 2016-04-05 21:57:02 UTC
From: jsternmd@...
Topic: 2372  Message: 2372

New in box ---- Agilent/HP 08920-60168 Option 014 6 KHz Band Pass Filter for 8920A/B

$99 + $12 USPS Priority

Jerry NY2KW

# 2373. FS: HP RF Communications Test Set Card - 11807E opt 100

Yahoo group: hp8924
Date: 2016-04-05 21:58:34 UTC
From: jsternmd@...
Topic: 2373  Message: 2373

RF Communications Test Set Card - 11807E opt 100. $45 plus $5 shipping

Jerry NY2KW

# 2374. WTB - Power Supply for E8285A (5063-9705) - working.

Yahoo group: hp8924
Date: 2016-04-07 23:33:15 UTC
From: zl1cvd@...
Topic: 2374  Message: 2374

I now have 2x E8285A's with crook power supplies. Changed caps, re soldered joints but still can't get either one go. Does anyone have for sale a working 5063-9705 E8285A power supply. Can pay by PayPal. Cheers & 73s Chris ZL1CVD.

# 2375. Re: [hp8924] WTB - Power Supply for E8285A (5063-9705) - working.

Yahoo group: hp8924
Date: 2016-04-08 02:33:57 UTC
From: <w4lxe@...>
Topic: 2374  Message: 2375

Can the E8285A used for HF ?

Best regards,

Jose Hernandez

From: mailto:hp8924@yahoogroups.com
Sent: Thursday, April 07, 2016 7:33 PM
To: hp8924@yahoogroups.com
Subject: [hp8924] WTB - Power Supply for E8285A (5063-9705) - working.

I now have 2x E8285A's with crook power supplies. Changed caps, re soldered joints but still can't get either one go. Does anyone have for sale a working 5063-9705 E8285A power supply. Can pay by PayPal. Cheers & 73s Chris ZL1CVD.

---
This email has been checked for viruses by Avast antivirus software.
https://www.avast.com/antivirus

# 2376. Re: [hp8924] WTB - Power Supply for E8285A (5063-9705) - working.

Yahoo group: hp8924
Date: 2016-04-08 04:01:57 UTC
From: Ralph Mowery
Topic: 2374  Message: 2376

Look here for some info.

http://www.amtronix.com/diff.htm

From: "w4lxe@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Thursday, April 7, 2016 10:33 PM
Subject: Re: [hp8924] WTB - Power Supply for E8285A (5063-9705) - working.

<!--#yiv4397230427 #yiv4397230427 .yiv4397230427ygrp-photo-title{clear:both;font-size:smal
ler;height:15px;overflow:hidden;text-align:center;width:75px;}#yiv4397230427 div.yiv439723
0427ygrp-photo{background-position:center;background-repeat:no-repeat;background-color:whi
te;border:1px solid black;height:62px;width:62px;}#yiv4397230427
div.yiv4397230427photo-title a, #yiv4397230427 div.yiv4397230427photo-title a:active,
#yiv4397230427 div.yiv4397230427photo-title a:hover, #yiv4397230427
div.yiv4397230427photo-title a:visited {text-decoration:none;}#yiv4397230427
div.yiv4397230427attach-table div.yiv4397230427attach-row {clear:both;}#yiv4397230427
div.yiv4397230427attach-table div.yiv4397230427attach-row div {float:left;}#yiv4397230427
p {clear:both;padding:15px 0 3px 0;overflow:hidden;}#yiv4397230427
div.yiv4397230427ygrp-file {width:30px;}#yiv4397230427 div.yiv4397230427attach-table
div.yiv4397230427attach-row div div a {text-decoration:none;}#yiv4397230427
div.yiv4397230427attach-table div.yiv4397230427attach-row div div span
{font-weight:normal;}#yiv4397230427 div.yiv4397230427ygrp-file-title
{font-weight:bold;}#yiv4397230427 -->

Can the E8285A used for HF ? Best regards,

Jose Hernandez

# 2377. Re: [hp8924] WTB - Power Supply for E8285A (5063-9705) - working.

Yahoo group: hp8924
Date: 2016-04-08 04:05:43 UTC
From: Brian Swann
Topic: 2374  Message: 2377

Also look here for specific E8285A info:

http://www.amtronix.com/e8285a.htm

Brian
n1bs

On Fri, Apr 8, 2016 at 12:01 AM, Ralph Mowery ku4pt@yahoo.com [hp8924] <
hp8924@yahoogroups.com> wrote:

>
>
> Look here for some info.
>
>
> http://www.amtronix.com/diff.htm
>
>
> ----------
> *From:* "w4lxe@... [hp8924]" <hp8924@yahoogroups.com>
> *To:* hp8924@yahoogroups.com
> *Sent:* Thursday, April 7, 2016 10:33 PM
> *Subject:* Re: [hp8924] WTB - Power Supply for E8285A (5063-9705) -
> working.
>
>
>
> Can the E8285A used for HF ?
>
> Best regards,
>
> Jose Hernandez
>
>
>
>

# 2378. Re: [hp8924] Re: GBS-8220 setup

Yahoo group: hp8924
Date: 2016-04-08 04:14:55 UTC
From: larson_art@...
Topic: 1581  Message: 2378

I know this is an old post but I was looking for the documentation to use the GBS-8200 with the LM1881 Chip.

Thanks - Art

# 2380. Re: 2016-March-29 19:07:45

Yahoo group: hp8924
Date: 2016-04-10 18:21:57 UTC
From: willcoele@...
Topic: 2369  Message: 2380

Back in 2011 I uploaded the file to this group.

---In hp8924@yahoogroups.com, <plowmass@...> wrote :

Hi,
Found this on the net and I thought it may be of use.
De, Vk6aaj

# 2381. Yahoo may soon be sold

Yahoo group: hp8924
Date: 2016-04-14 12:49:57 UTC
From: wb4yjt@...
Topic: 2381  Message: 2381

It appears that Yahoo may soon be sold, wit the result that the Groups may disappear.

I hope someone can archive all the valuable information here before that happens.

It would be a shame to lose it all.

Y

# 2382. Clean 8924C for sale

Yahoo group: hp8924
Date: 2016-04-24 19:54:26 UTC
From: wb6dgn_tom@...
Topic: 2382  Message: 2382

Power supply needs capacitors but, otherwise, in excellent condition Back feet not perfect but still able to support the instrument safely.
Presently accepting offers; will decide approx. the last week of May, 2016 if a satisfactory offer is received.
Note: This unit is subject to prior local sale!
Thanks,
Tom Allinson

# 2383. Re: Clean 8924C for sale

Yahoo group: hp8924
Date: 2016-04-24 21:30:34 UTC
From: Clif Holland
Topic: 2382  Message: 2383

If you have something to sell put a price on it. You know what you want.
This is not an auction site.

--
Clif Holland KA5IPF
www.avvid.com
214-850-0973

# 2384. Re: [hp8924] Re: Clean 8924C for sale

Yahoo group: hp8924
Date: 2016-04-24 23:29:59 UTC
From: jdluke6545@...
Topic: 2382  Message: 2384

I agree.
If you want to auction it off (which sounds exactly what you're doing) then post it on eBay.

> On Apr 24, 2016, at 2:30 PM, Clif Holland clif@... [hp8924] <hp8924@yahoogroups.com> wrote:
>
> If you have something to sell put a price on it. You know what you want. This is not an auction site.
> --
> Clif Holland KA5IPF
> www.avvid.com
> 214-850-0973
>

# 2385. VGA to USB input to computer

Yahoo group: hp8924
Date: 2016-05-03 19:47:04 UTC
From: ku4pt@...
Topic: 2385  Message: 2385

I have finally gotten my GSB8200 board working into the VGA monitor. I have looked around and am trying to find something inexpensive that will take that VGA output and input it to a computer to record the screen in real time. Seems that I can find all kinds of converters from about $ 10 up to convert almost any other video to USB except the VGA .

I do have the program and connection for the single screen snapshot working, but I really want a real time copy of what is going on.

That type of converter, or even better would be one that takes that odd ball video of the 8924C and sends it out as something that will plug into the USB of the computer.

# 2386. 8920B

Yahoo group: hp8924
Date: 2016-05-13 03:23:04 UTC
From: mojoehand@...
Topic: 2386  Message: 2386

I have an HP 8920B with Opt 055, which lets it go down to 400 KHz, like the "A" model. I was just testing a few things to see how accurate this unit is.

One of the tests I did was to input a calibrated 0 dBm, 50 MHz reference. Measuring this on the RF Analyzer screen and using the RF IN/OUT, I read -0.2 dBm. This is excellent.

Injecting this same signal into ANT IN, I get no reading, just dashes. There is probably a reason for this, but it escapes me at the moment. If someone would explain, I'd appreciate it.

Now on the the spectrum analyzer. Using RF IN/OUT, I read -1.63 dBm. Using the ANT IN, I read -1.08 dBm. Both of these are more than 1 dB lower than they should be. The reference level is set to 20 dB, so the peak is two divisons down from the top. I read somewhere that this is where you want the peak.

Comments welcome.

# 2387. RE: [hp8924] 8920B

Yahoo group: hp8924
Date: 2016-05-13 06:55:27 UTC
From: Adam Farson
Topic: 2386  Message: 2387

On my 8935 E6380A, using a calibrated 50 MHz 0 dBm source, I read -0.27 dBm on RF IN/OUT in the RF Analyzer screen. When I move the source to ANT IN and switch the input to ANT IN, I also see dashes in the Tx Power field. This appears normal.

On the Spectrum Analyzer screen, using RF IN/OUT, I read -0.95 dBm at the peak, with 30 kHz span and 300 Hz RBW. Reference level is 20 dB. Using ANT IN with the same settings, I read -0.55 dBm.

It looks as if the two instruments are pretty close to one another.

73, Adam VA7OJ/AB4OJ

From: hp8924@yahoogroups.com [mailto:hp8924@...m]
Sent: 12-May-16 20:23
To: hp8924@yahoogroups.com
Subject: [hp8924] 8920B

I have an HP 8920B with Opt 055, which lets it go down to 400 KHz, like the "A" model. I was just testing a few things to see how accurate this unit is.

One of the tests I did was to input a calibrated 0 dBm, 50 MHz reference. Measuring this on the RF Analyzer screen and using the RF IN/OUT, I read -0.2 dBm. This is excellent.

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Comments welcome.

# 2388. Re: [hp8924] 8920B

Yahoo group: hp8924
Date: 2016-05-13 07:20:19 UTC
From: Christopher Brown
Topic: 2386  Message: 2388

I have a 8935 as well and see similar.

I had the impression that the TX Power reading was done via other method tied to the input attenuator on the RF IN/OUT port, rather than a the method used by the SA when setting a marker.

I have not specifically tested, but the TX Power reading appears to a a summ reading of ALL RF, and I know that at least on my unit will happily report a correct power level even if the target freq is a few hundred Mhz off.

On 5/12/16 22:55, 'Adam Farson' farson@... [hp8924] wrote:
>
>
> On my 8935 E6380A, using a calibrated 50 MHz 0 dBm source, I read -0.27
> dBm on RF IN/OUT in the RF Analyzer screen. When I move the source to
> ANT IN and switch the input to ANT IN, I also see dashes in the Tx Power
> field. This appears normal.
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>
>
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> the peak, with 30 kHz span and 300 Hz RBW. Reference level is 20 dB.
> Using ANT IN with the same settings, I read -0.55 dBm.
>
>
>
> It looks as if the two instruments are pretty close to one another.
>
>
>
> 73, Adam VA7OJ/AB4OJ
>
>
>
> *From:*hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com]
> *Sent:* 12-May-16 20:23
> *To:* hp8924@yahoogroups.com
> *Subject:* [hp8924] 8920B
>
>
>
>
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> I have an HP 8920B with Opt 055, which lets it go down to 400 KHz, like
> the "A" model. I was just testing a few things to see how accurate this

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> reference. Measuring this on the RF Analyzer screen and using the RF
> IN/OUT, I read -0.2 dBm. This is excellent.
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> Injecting this same signal into ANT IN, I get no reading, just dashes.
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> Using the ANT IN, I read -1.08 dBm. Both of these are more than 1 dB
> lower than they should be. The reference level is set to 20 dB, so the
> peak is two divisons down from the top. I read somewhere that this is
> where you want the peak.
>
> Comments welcome.
>
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>

# 2389. Re: 8920B RF Power Meter (+8924, E8285A)

Yahoo group: hp8924
Date: 2016-05-13 08:32:01 UTC
From: zl1cvd@...
Topic: 2386  Message: 2389

This is as it should be. The main Peak & Average power detectors (there are 2) are in the A23 input module (8924 A5) and attached to the RF IN/OUT port only (Page 447 & 451 8920 assembly level repair guide). There is one downside here, attenuator A24 (8924 A4), normally 4dB from memory, also attenuates lowest possible power reading. So if you upgrade the input to handle 100W with a 20dB attenuator, lowest possible power reading now is 16dB worse than before.

I believe power on spectrum analyzer is caclulated from ADC IF reading somewhere. Its definitely not as accurate but gets better with narrower bandwidth / span.

73s de chris zl1cvd

# 2390. Re: 8920B

Yahoo group: hp8924
Date: 2016-05-13 08:36:23 UTC
From: zl1cvd@...
Topic: 2386  Message: 2390

The big advantage of the 055 is its flat response below 30MHz. Downside was the relay failures. Only ever tried to replace one once, worked but a heck of a job - mutilayer board, lots of RF earthing vias, lots of heat...

# 2391. Re: [hp8924] 8920B

Yahoo group: hp8924
Date: 2016-05-13 12:03:34 UTC
From: Clif Holland
Topic: 2386  Message: 2391

My understanding is the "Power Meter" is like a wattmeter, measures
everything. The spectrum analyzer measures a single point.

Clif Holland KA5IPF
www.avvid.com
214-850-0973

On 5/13/2016 2:20 AM, Christopher Brown cbrown@... [hp8924] wrote:
>
>
> I have a 8935 as well and see similar.
>
> I had the impression that the TX Power reading was done via other method
> tied to the input attenuator on the RF IN/OUT port, rather than a the
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> Mhz off.
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> On 5/12/16 22:55, 'Adam Farson' farson@... [hp8924] wrote:
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> > On my 8935 E6380A, using a calibrated 50 MHz 0 dBm source, I read -0.27
> > dBm on RF IN/OUT in the RF Analyzer screen. When I move the source to
> > ANT IN and switch the input to ANT IN, I also see dashes in the Tx Power
> > field. This appears normal.
> >
> >
> >
> > On the Spectrum Analyzer screen, using RF IN/OUT, I read -0.95 dBm at
> > the peak, with 30 kHz span and 300 Hz RBW. Reference level is 20 dB.
> > Using ANT IN with the same settings, I read -0.55 dBm.
> >
> >
> >
> > It looks as if the two instruments are pretty close to one another.
> >
> >
> >
> > 73, Adam VA7OJ/AB4OJ
> >
> >
> >

> > *From:*hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com]
> > *Sent:* 12-May-16 20:23
> > *To:* hp8924@yahoogroups.com
> > *Subject:* [hp8924] 8920B
> >
> >
> >
> >
> >
> > I have an HP 8920B with Opt 055, which lets it go down to 400 KHz, like
> > the "A" model. I was just testing a few things to see how accurate this
> > unit is.
> >
> > One of the tests I did was to input a calibrated 0 dBm, 50 MHz
> > reference. Measuring this on the RF Analyzer screen and using the RF
> > IN/OUT, I read -0.2 dBm. This is excellent.
> >
> > Injecting this same signal into ANT IN, I get no reading, just dashes.
> > There is probably a reason for this, but it escapes me at the moment. If
> > someone would explain, I'd appreciate it.
> >
> > Now on the the spectrum analyzer. Using RF IN/OUT, I read -1.63 dBm.
> > Using the ANT IN, I read -1.08 dBm. Both of these are more than 1 dB
> > lower than they should be. The reference level is set to 20 dB, so the
> > peak is two divisons down from the top. I read somewhere that this is
> > where you want the peak.
> >
> > Comments welcome.
> >
> >
> >
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> >
> >
> >
>
>

# 2392. Re: 8920B

Yahoo group: hp8924
Date: 2016-05-13 20:57:13 UTC
From: mojoehand@...
Topic: 2386  Message: 2392

Thanks for that detailed response. You obviously know your way around these units.

# 2393. Re: 8920B

Yahoo group: hp8924
Date: 2016-05-13 21:06:56 UTC
From: mojoehand@...
Topic: 2386  Message: 2393

I just bought this unit a few months ago. In one of the menus, it tells you how many times each relay has been activated. The numbers are extrememly low. I suspect that the 8920B was upgraded late in life with the Opt 055.

I bought the 8920B to replace an E8285 that I had for a few years. It did everything I needed, but it was a beast. When I rearranged my work room, It was difficult to find somewhere to put the E8285, being 2 ft deep.

I got such a great price on the 8920B that I couldn't resist. And it fits on a shelf above my work table :-)

# 2394. 8285 Question

Yahoo group: hp8924
Date: 2016-05-17 03:56:41 UTC
From: patrick_mulcahy@...
Topic: 2394  Message: 2394

I got an 8285 at auction and I was wondering how to tell if it was the 800MHz and above version or the 0.4-1000MHz version. Any ideas?

Pat

# 2395. Re: [hp8924] 8285 Question

Yahoo group: hp8924
Date: 2016-05-17 06:20:46 UTC
From: Robert Atkinson
Topic: 2394  Message: 2395

Try receiving a local broadcast FM station?
Robert G8RPI.

From: "patrick_mulcahy@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Tuesday, 17 May 2016, 4:56
Subject: [hp8924] 8285 Question

I got an 8285 at auction and I was wondering how to tell if it was the 800MHz and above version or the 0.4-1000MHz version. Any ideas?

Pat

# 2396. Re: 8285 Question

Yahoo group: hp8924
Date: 2016-05-17 12:49:05 UTC
From: george@...
Topic: 2394  Message: 2396

If it has the Agilent name on it , probably an 800 and up unit. Try setting the freq to anything under it, simple test. However, there are folks that have the firmware "downgrade" to open it up, however, the calibration is pretty off on levels especially around 400-500 MHz, as I recall. (I have done this mod on one). But it works. ZL1CVD, Chris, who I believe frequents this forum that had the replacement Eprom to fix the calibration issue and has the info on opening up the range. The Eprom involves soldering on a SMD chip, though. If that's not for you he can do it for you, all for a pretty reasonable price.

HP Agilent E8285A Upgrade - 400kHz to 1GHz SSB & AM - includes Downconverter http://www.ebay.com/itm/HP-Agilent-E8285A-Upgrade-400kHz-to-1GHz-SSB-AM-includes-Downconverter-/121969893098?hash=item1c65f8deea:g:n5MAAOSw3mpXIW5w

http://www.ebay.com/itm/HP-Agilent-E8285A-Upgrade-400kHz-to-1GHz-SSB-AM-includes-Downconverter-/121969893098?hash=item1c65f8deea:g:n5MAAOSw3mpXIW5w

HP Agilent E8285A Upgrade - 400kHz to 1GHz SSB & AM ... http://www.ebay.com/itm/HP-Agilent-E8285A-Upgrade-400kHz-to-1GHz-SSB-AM-includes-Downconverter-/121969893098?hash=item1c65f8deea:g:n5MAAOSw3mpXIW5w US $290.00 Used in Business & Industrial, Electrical & Test Equipment, Test Equipment

View on www.ebay.com http://www.ebay.com/itm/HP-Agilent-E8285A-Upgrade-400kHz-to-1GHz-SSB-AM-includes-Downconverter-/121969893098?hash=item1c65f8deea:g:n5MAAOSw3mpXIW5w
Preview by Yahoo

The link is to the stuff you need, on Ebay.

And do remember the power limitation for RF into the unit.

GeorgeC
W2DB

# 2397. Re: 8285 Question

Yahoo group: hp8924
Date: 2016-05-17 18:46:55 UTC
From: Frank Hughes
Topic: 2394  Message: 2397

with mine, the SA would not accept any frequency value in the HF range, only 800 mhz range

# 2398. New file uploaded to hp8924

Yahoo group: hp8924
Date: 2016-05-22 05:13:20 UTC
From: hp8924@yahoogroups.com
Topic: 31  Message: 2398

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hp8924
group.

File : /E8285A/E8585A V2.04 Firmware Notes.odt
Uploaded by : c_day_nz <zl1cvd@...>
Description : Upgrading to V2.04 increases frequency range of older 800MHz+ units. This note describes calibration issues and methods of bypassing these issues.

You can access this file at the URL:
https://groups.yahoo.com/neo/groups/hp8924/files/E8285A/E8585A%20V2.04%20Firmware%20Notes.odt

To learn more about file sharing for your group, please visit:
https://help.yahoo.com/kb/index?page=content&y=PROD_GRPS&locale=en_US&id=SLN15398

Regards,

c_day_nz <zl1cvd@...>

# 2399. New file uploaded to hp8924

Yahoo group: hp8924
Date: 2016-05-22 05:14:00 UTC
From: hp8924@yahoogroups.com
Topic: 31  Message: 2399

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hp8924
group.

File : /E8285A/E8285A V2.04 Firmware Notes.pdf
Uploaded by : c_day_nz <zl1cvd@...>
Description : Upgrading to V2.04 increases frequency range of older 800MHz+ units. This note describes calibration issues and methods of bypassing these issues.

You can access this file at the URL:
https://groups.yahoo.com/neo/groups/hp8924/files/E8285A/E8285A%20V2.04%20Firmware%20Notes.pdf

To learn more about file sharing for your group, please visit:
https://help.yahoo.com/kb/index?page=content&y=PROD_GRPS&locale=en_US&id=SLN15398

Regards,

c_day_nz <zl1cvd@...>

# 2400. New file uploaded to hp8924

Yahoo group: hp8924
Date: 2016-05-22 05:25:18 UTC
From: hp8924@yahoogroups.com
Topic: 31  Message: 2400

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hp8924
group.

File : /E8285A/E8285A V2.04 Firmware Notes.pdf
Uploaded by : c_day_nz <zl1cvd@...>
Description : Upgrading to V2.04 increases frequency range of older 800MHz+ units. This note describes calibration issues and methods of bypassing these issues.

You can access this file at the URL:
https://groups.yahoo.com/neo/groups/hp8924/files/E8285A/E8285A%20V2.04%20Firmware%20Notes.pdf

To learn more about file sharing for your group, please visit:
https://help.yahoo.com/kb/index?page=content&y=PROD_GRPS&locale=en_US&id=SLN15398

Regards,

c_day_nz <zl1cvd@...>

# 2401. New file uploaded to hp8924

Yahoo group: hp8924
Date: 2016-05-22 05:27:57 UTC
From: hp8924@yahoogroups.com
Topic: 31  Message: 2401

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hp8924
group.

File : /E8285A/E8285A Down-converter Calibration Chip Install Notes.pdf
Uploaded by : c_day_nz <zl1cvd@...>
Description : Notes on replacing the down converter calibration chip

You can access this file at the URL:
https://groups.yahoo.com/neo/groups/hp8924/files/E8285A/E8285A%20Down-converter%20Calibration%20Chip%20Install%20Notes.pdf

To learn more about file sharing for your group, please visit:
https://help.yahoo.com/kb/index?page=content&y=PROD_GRPS&locale=en_US&id=SLN15398

Regards,

c_day_nz <zl1cvd@...>

# 2402. Hello all, Need some questions answered

Yahoo group: hp8924
Date: 2016-06-23 00:52:19 UTC
From: ob1kinobi1999@...
Topic: 2402  Message: 2402

I have just bought a nice used 8924C
It had very bad screen burn and I found a brand new in box replacement CRT. its swapped out and works great.
I was trying to hook an external monitor but ran into some issues but found a work around and that works great too. now to actually using the unit.

when I got it it was supposed to be only a 30mhz-1ghz range with a max input of 3 watts. On reading several articles its been said that the range is actually 400khz - 1ghz but anything under the 30mhz range may be off on the accuracy if you don't have option 055. also there was mentioned that there was a option 060 for a 60 watt input, reading further another said that the 055 option not only fixed the attenuation levels for the lower frequencies but also allowed for a 100 watt input.

I have not been able to clarify these statements or find any information online about these options. however I did find a very small picture of a heat-sink and some other parts listed as the 055 upgrade.

When I changed out my CRT I noticed that on the side of the CRT (right hand) there was this same heatsink that looks like some kind of high power filtering device and it matches the small image I have. on the top it has 2 or 3 long numbers but one that stands out is xxxxxxx-055 I was hoping this was the 055 option. I would like to know more but online info is hard to find.

As to operating the unit its been fun learning what i can make it do, I have not messed with service monitors in years and didn't have much to do back then. I can set up the spectrum analyzer and can see my signal when I transmit. I can also send a variable tone to the radio from the unit. I have had some trouble hearing transmissions from the radio to the unit but did get it to work once, but it stopped later. I am sure I just have a setting wrong, luckily I have all 5 manuals including the repair manual for the unit. I have trouble reading and understanding some of this technical info. That's why I joined this forum. I do have access to 2 other local techs that have lots of info, they just haven't messed with service monitors in general for years and are not up 100% on what to do.

Any info anyone can provide on the 055 option would be great , also any pictures would be helpful too!

# 2403. Re: VGA to USB input to computer

Yahoo group: hp8924
Date: 2016-06-23 01:00:38 UTC
From: ob1kinobi1999@...
Topic: 2385  Message: 2403

I was wondering if you could send me you hook up diagrams for connecting the hp to the 8200board. I am designing a video modification interface that will have many extra options using this board, but I would like to get a jump-start on converting the 19.2kz signal to VGA to start.

Also you might be able to get a SVGA to RCA adapter ($4 Ebay) and just use a TV Card (USB) to capture with.

# 2404. Memory Card?

Yahoo group: hp8924
Date: 2016-06-23 01:24:04 UTC
From: ob1kinobi1999@...
Topic: 2404  Message: 2404

Was wondering if a PCMCIA adapter card could be used, I have seen some that can take a sdcard or even compact flash, some even have external capabilities but am unsure if these would work. I have not been able to find any cheaper than about $80 used, would like a cheap alternative. also wondered what all you can do with this , I have the programming manual but havent read into it yet.

# 2405. Re: [hp8924] Hello all, Need some questions answered

Yahoo group: hp8924
Date: 2016-06-23 03:09:01 UTC
From: Ralph Mowery
Topic: 2402  Message: 2405

When you replaced the CRT to the right of it is a small box with some hard line of about 1/8 inch (you probably want milimeters, but I do't have the conversion handy) going in each side of it.  Inside of it is an atteunator that determines  the power input.  You can change that out to a high power one and it will be good for 60 or 100 watts.  The heat sink for the 3 watt unit is also good for 60 watts so all you have to change is the actual pad inside the box.  You also have to program the 8924c so the calibration will be correct for the new atteunator.  If you look at the files section of this group there are files and instructions on how to do it.  It looks similar to this one on ebay.http://www.ebay.com/itm/New-100-Watt-20-dB-50-ohm-Hybrid-Attenuator-up-to-2-GHz-/370844447103?hash=item56580d317f:g:8mAAAOSwHQ9Wa3DG

The standard configuration for the 8924c has an electronic attenuator  and is only calibrated for 30 MHz up.  It works good to about 15 or maybe even 10 Mhz before the calibration gets way off.  The other option uses mechanical relays and is good to much lower frequencies.  All functions work to the lowe end,but  just the actual power levels will be off.  At Amtronix.com there is some information on this.
Most manuals for the 8924c are useless.  You can download the one for the 8920 series for better information.  You will have to make note of some slight differences.

From: "ob1kinobi1999@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Wednesday, June 22, 2016 8:52 PM
Subject: [hp8924] Hello all, Need some questions answered

I have just bought a nice used 8924C
It had very bad screen burn and I found a brand new in box replacement CRT. its swapped out and works great.
I was trying to hook an external monitor but ran into some issues but found a work around and that works great too. now to actually using the unit.

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 I have not been able to clarify these statements or find any information online about these options. however I did find a very small picture of a heat-sink and some other parts listed as the 055 upgrade.

When I changed out my CRT I noticed that on the side of the CRT (right hand) there was this same heatsink that looks like some kind of high power filtering device and it matches the small image I have. on the top it has 2 or 3 long numbers but one that stands out is xxxxxxx-055 I was hoping this was the 055 option. I would like to know more but online info is hard to find.

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Any info anyone can provide on the 055 option would be great , also any pictures would be helpful too!

# 2406. Re: [hp8924] Re: VGA to USB input to computer

Yahoo group: hp8924
Date: 2016-06-23 03:25:56 UTC
From: Ralph Mowery
Topic: 2385  Message: 2406

If you just want to do a screen print, you can do that very easy.  There is a program called something like  BTS utility.  On the back of the 9824 is what looks like an ethiernet connector.  It only has 6 pins, but wiring that up to a standard rs232 connector and plugging it into a computer serial port will work fine.

From: "ob1kinobi1999@yahoo.com [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Wednesday, June 22, 2016 9:00 PM
Subject: [hp8924] Re: VGA to USB input to computer

<!--#yiv1777171034 #yiv1777171034 .yiv1777171034ygrp-photo-title{clear:both;font-size:smaller;height:15px;overflow:hidden;text-align:center;width:75px;}#yiv1777171034 div.yiv1777171034ygrp-photo{background-position:center;background-repeat:no-repeat;background-color:white;border:1px solid black;height:62px;width:62px;}#yiv1777171034 div.yiv1777171034photo-title a, #yiv1777171034 div.yiv1777171034photo-title a:active, #yiv1777171034 div.yiv1777171034photo-title a:hover, #yiv1777171034 div.yiv1777171034photo-title a:visited {text-decoration:none;}#yiv1777171034 div.yiv1777171034attach-table div.yiv1777171034attach-row {clear:both;}#yiv1777171034 div.yiv1777171034attach-table div.yiv1777171034attach-row div {float:left;}#yiv1777171034 p {clear:both;padding:15px 0 3px 0;overflow:hidden;}#yiv1777171034 div.yiv1777171034ygrp-file {width:30px;}#yiv1777171034 div.yiv1777171034attach-table div.yiv1777171034attach-row div div a {text-decoration:none;}#yiv1777171034 div.yiv1777171034attach-table div.yiv1777171034attach-row div div span {font-weight:normal;}#yiv1777171034 div.yiv1777171034ygrp-file-title {font-weight:bold;}#yiv1777171034 --> <!--#yiv1777171034 #yiv1777171034ygrp-mkp {border:1px solid #d8d8d8;font-family:Arial;margin:10px 0;padding:0 10px;}#yiv1777171034 #yiv1777171034ygrp-mkp hr {border:1px solid #d8d8d8;}#yiv1777171034 #yiv1777171034ygrp-mkp #yiv1777171034hd {color:#628c2a;font-size:85%;font-weight:700;line-height:122%;margin:10px 0;}#yiv1777171034 #yiv1777171034ygrp-mkp #yiv1777171034ads {margin-bottom:10px;}#yiv1777171034 #yiv1777171034ygrp-mkp .yiv1777171034ad {padding:0 0;}#yiv1777171034 #yiv1777171034ygrp-mkp .yiv1777171034ad p {margin:0;}#yiv1777171034 #yiv1777171034ygrp-mkp .yiv1777171034ad a {color:#0000ff;text-decoration:none;}-->

I was wondering if you could send me you hook up diagrams for connecting the hp to the 8200board. I am designing a video modification interface that will have many extra options using this board, but I would like to get a jump-start on converting the 19.2kz signal to VGA to start.

Also you might be able to get a SVGA to RCA adapter ($4 Ebay) and just use a TV Card (USB) to capture with.

--

# 2407. Re: Memory Card?

Yahoo group: hp8924
Date: 2016-06-23 06:17:15 UTC
From: robert8rpi@...
Topic: 2404  Message: 2407

Hi,
No PCMCIA to CF (or SD) adaptors will not work in a 8924 or 8920B. The HP test set use linear addressing mode of PCMCIA cards. Most applications including PCs use the ATA hard disk emulation mode. All the adaptors I have found do not connect the mode select pin and I've not found a CF card that supports linear mode anyway. SD has never had linear addressing.
Some industrial PCMCIA cards will work but the NVRAM ones are expensive.

Robert G8RPI.

# 2408. Re: [hp8924] Re: VGA to USB input to computer

Yahoo group: hp8924
Date: 2016-06-23 06:19:43 UTC
From: robert8rpi@...
Topic: 2385  Message: 2408

Hi,
search old message and the file section for information on using the Gonbes adaptor. On thing to note is the sync input is not rated to 5V input so if using a LM1881 or 5V comparator for a sync separator you need to add a series resistor.

Robert G8RPI

# 2409. Re: Hello all, Need some questions answered

Yahoo group: hp8924
Date: 2016-06-23 06:30:22 UTC
From: robert8rpi@...
Topic: 2402  Message: 2409

Hi,
Welcome to the group.
As Ralph has mentioned, read the 8920A and 8920B guides and manuals if you want to use it for analogue radio. The 8924C is basically a low power input 8920B with a CDMA test set built in. The 8920A guides are a bit more introductory. All the 8920B features are there, just some buttons and menus are different. If you lost audio on receive you probably sent it to the analyser rather than the speaker.
I prefer to use an external power attenuator rather than modify the internal one. It keeps the heat out of the box and gets you out of the habit of connecting a transmitter directly to the test set which can cause damage if you get the wrong socket.
You can add an off-set in dB to the input/output port (setup screen) so all the readings are correct. This even allows you to use an odd value attenuator which are often a lot cheaper surplus than a 10 or 20dB unit.
The "55" on the part number is coincidence, there is no connection with option 55. Options are marked on a plate on the rear panel.

Robert G8RPI.
p.s. I have the RF tools on PCMCIA card for sale if you need to use them.

# 2410. Re: Hello all, Need some questions answered

Yahoo group: hp8924
Date: 2016-06-23 14:19:11 UTC
From: rhyolite
Topic: 2402  Message: 2410

If you have the spectrum analyser band width set too wide, the audio demod turns off. It is normal. The manual explains this.

Sent from Samsung tablet

# 2411. Re: [hp8924] Re: Hello all, Need some questions answered

Yahoo group: hp8924
Date: 2016-06-23 14:27:58 UTC
From: Ralph Mowery
Topic: 2402  Message: 2411

I modified both of my 8924c to handle the higher input.  One was the 60 watt factory replacement and the other was just a 100 watt rated attenuator , don't recall how many db it is but from one in the files section.
I agree that it is much better to use an external one to help prevent plugging a transmitter into the antenna or duplex out port.  I have a big 250 watt dunny load with a tap on it that I usually use with the transmitters.  I just thought the high power input may help me from blowing the 8924 if I accidentally  transmitted while checking a receiver.

From: "robert8rpi@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Thursday, June 23, 2016 2:30 AM
Subject: [hp8924] Re: Hello all, Need some questions answered

#yiv2336519861 #yiv2336519861 -- #yiv2336519861 .yiv2336519861ygrp-photo-title{clear:both;
font-size:smaller;height:15px;overflow:hidden;text-align:center;width:75px;}#yiv2336519861
div.yiv2336519861ygrp-photo{background-position:center;background-repeat:no-repeat;backgro
und-color:white;border:1px solid black;height:62px;width:62px;}#yiv2336519861
div.yiv2336519861photo-title a, #yiv2336519861 div.yiv2336519861photo-title a:active,
#yiv2336519861 div.yiv2336519861photo-title a:hover, #yiv2336519861
div.yiv2336519861photo-title a:visited {text-decoration:none;}#yiv2336519861
div.yiv2336519861attach-table div.yiv2336519861attach-row {clear:both;}#yiv2336519861
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div.yiv2336519861attach-table div.yiv2336519861attach-row div div span
{font-weight:normal;}#yiv2336519861 div.yiv2336519861ygrp-file-title
{font-weight:bold;}#yiv2336519861 #yiv2336519861 #yiv2336519861 #yiv2336519861
--#yiv2336519861ygrp-mkp {border:1px solid #d8d8d8;font-family:Arial;margin:10px
0;padding:0 10px;}#yiv2336519861 #yiv2336519861ygrp-mkp hr {border:1px solid
#d8d8d8;}#yiv2336519861 #yiv2336519861ygrp-mkp #yiv2336519861hd
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{margin-bottom:10px;}#yiv2336519861 #yiv2336519861ygrp-mkp .yiv2336519861ad {padding:0
0;}#yiv2336519861 #yiv2336519861ygrp-mkp .yiv2336519861ad p {margin:0;}#yiv2336519861
#yiv2336519861ygrp-mkp .yiv2336519861ad a
{color:#0000ff;text-decoration:none;}#yiv2336519861

I prefer to use an external power attenuator rather than modify the internal one. It keeps the heat out of the box and gets you out of the habit of connecting a transmitter directly to the test set which can cause damage if you get the wrong socket.You can add an off-set in dB to the input/output port (setup screen) so all the readings are correct. This even allows you to use an odd value attenuator which are often a lot cheaper surplus than a 10 or 20dB unit.

# 2412. Re: [hp8924] Memory Card?

Yahoo group: hp8924
Date: 2016-06-23 16:42:51 UTC
From: Ernest Erickson
Topic: 2404  Message: 2412

You can use 'almost' any PCMCIA card in the 8924 series.
Mine uses a CF card, and it is a 4GB capacity. Used to store screen shots for site surveys.

A.E.C RADIO
On Jun 22, 2016 6:24 PM, "ob1kinobi1999@yahoo.com [hp8924]" <hp8924@yahoogroups.com> wrote:

Was wondering if a PCMCIA adapter card could be used, I have seen some that can take a sdcard or even compact flash, some even have external capabilities but am unsure if these would work. I have not been able to find any cheaper than about $80 used, would like a cheap alternative. also wondered what all you can do with this , I have the programming manual but havent read into it yet.

# 2413. Re: [hp8924] Re: Hello all, Need some questions answered

Yahoo group: hp8924
Date: 2016-06-23 16:44:53 UTC
From: Ernest Erickson
Topic: 2402  Message: 2413

Actually, anything above 1.50 mHz. will cut off the internal speaker.

A.E.C RADIO
On Jun 23, 2016 7:19 AM, "rhyolite rhyolite@leikhim.com [hp8924]" <hp8924@yahoogroups.com> wrote:

If you have the spectrum analyser band width set too wide, the audio demod turns off. It is normal. The manual explains this.

Sent from Samsung tablet

# 2414. Re: [hp8924] Re: Hello all, Need some questions answered

Yahoo group: hp8924
Date: 2016-06-23 16:47:48 UTC
From: Ernest Erickson
Topic: 2402  Message: 2414

I prefer to use external attenuators, so I have a lot of 100 Watt units, from 3dB through 20 dB. Even one at 30, but it is rare to have a need for this amount of attenuation, especially for LMR use, and almost never at a cell site.

A.E.C RADIO
On Jun 23, 2016 7:27 AM, "Ralph Mowery ku4pt@yahoo.com [hp8924]" <hp8924@yahoogroups.com> wrote:

I modified both of my 8924c to handle the higher input. One was the 60 watt factory replacement and the other was just a 100 watt rated attenuator , don't recall how many db it is but from one in the files section.

I agree that it is much better to use an external one to help prevent plugging a transmitter into the antenna or duplex out port. I have a big 250 watt dunny load with a tap on it that I usually use with the transmitters. I just thought the high power input may help me from blowing the 8924 if I accidentally transmitted while checking a receiver.

From: "robert8rpi@yahoo.co.uk [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Thursday, June 23, 2016 2:30 AM
Subject: [hp8924] Re: Hello all, Need some questions answered

I prefer to use an external power attenuator rather than modify the internal one. It keeps the heat out of the box and gets you out of the habit of connecting a transmitter directly to the test set which can cause damage if you get the wrong socket.
You can add an off-set in dB to the input/output port (setup screen) so all the readings are correct. This even allows you to use an odd value attenuator which are often a lot cheaper surplus than a 10 or 20dB unit.

# 2415. Re: [hp8924] Re: Hello all, Need some questions answered

Yahoo group: hp8924
Date: 2016-06-23 17:15:56 UTC
From: robert8rpi@...
Topic: 2402  Message: 2415

Transmitting up the RX or Duplexer ports causes damage. With an external attenuator you never connect a TX directly to the test se so are less likely to make the slip. There is no difference in performance with an external attenuator, the offset dB function applies to both directions of the port so you don't have to do any mental math.
I've just repaired a 8920A that had been transmitted up for a friend. I dont know what the power was but it took out two PIN diodes, twoo attenuator sections and a couple of resistors. Fortunatly I had an input module from a 8922x and was able to to rob the required parts from it.

Robert G8RPI.

# 2416. 8924C Won't Power Up

Yahoo group: hp8924
Date: 2016-06-23 18:03:06 UTC
From: gretske@...
Topic: 2416  Message: 2416

Hello all,
I have had an HP 8924C for 4 years and use it somewhat frequently. A couple of weeks ago, I turned on the power switch, and nothing happened. I have not moved it or changed anything. I checked the power at the end of the AC power cord and it is OK. I assumed the power supply, so I got a known good replacement. Same thing. I don't see an led lighting, and nothing is happening. I am suspecting the power switch. Can it be tested at the power supply connectors? There is a lead marked, "ON/OFF" and another marked "LINE SYNC." Can you power it up around the front panel switch?

How do you get to the switch to check it, or replace it?

Am I missing anything else. Any other suggestion gratefully accepted.

Gene
W4DSN

# 2417. Re: [hp8924] Memory Card?

Yahoo group: hp8924
Date: 2016-06-23 18:01:51 UTC
From: Ralph Mowery
Topic: 2404  Message: 2417

Can you point to exectally which CF pcmcia card you are using ?
I have a 512 MB card and it will not read or write to it.  The card works in a computer because I can write to it and read back from it.  The 8924 tells me that the card needs to be initilized  and it can not do that because it is write protected.
I know the 8924 works because I have 2 types of pcmcia memory cards and they both read and write.One has a battery and it has to be replace about every year if I want to use it.  The other card has an on board battery that is recharged from the 8924c while in the slot.

From: "Ernest Erickson aecglobe@... [hp8924]" <hp8924@yahoogroups.com>
To: "ob1kinobi1999@... [hp8924]" <hp8924@...m>
Sent: Thursday, June 23, 2016 12:42 PM
Subject: Re: [hp8924] Memory Card?

<!--#yiv3323324919 #yiv3323324919 .yiv3323324919ygrp-photo-title{clear:both;font-size:smaller;height:15px;overflow:hidden;text-align:center;width:75px;}#yiv3323324919 div.yiv3323324919ygrp-photo{background-position:center;background-repeat:no-repeat;background-color:white;border:1px solid black;height:62px;width:62px;}#yiv3323324919 div.yiv3323324919photo-title a, #yiv3323324919 div.yiv3323324919photo-title a:active, #yiv3323324919 div.yiv3323324919photo-title a:hover, #yiv3323324919 div.yiv3323324919photo-title a:visited {text-decoration:none;}#yiv3323324919 div.yiv3323324919attach-table div.yiv3323324919attach-row {clear:both;}#yiv3323324919 div.yiv3323324919attach-table div.yiv3323324919attach-row div {float:left;}#yiv3323324919 p {clear:both;padding:15px 0 3px 0;overflow:hidden;}#yiv3323324919 div.yiv3323324919ygrp-file {width:30px;}#yiv3323324919 div.yiv3323324919attach-table div.yiv3323324919attach-row div div a {text-decoration:none;}#yiv3323324919 div.yiv3323324919attach-table div.yiv3323324919attach-row div div span {font-weight:normal;}#yiv3323324919 div.yiv3323324919ygrp-file-title {font-weight:bold;}#yiv3323324919 --> <!--#yiv3323324919 #yiv3323324919ygrp-mkp {border:1px solid #d8d8d8;font-family:Arial;margin:10px 0;padding:0 10px;}#yiv3323324919 #yiv3323324919ygrp-mkp hr {border:1px solid #d8d8d8;}#yiv3323324919 #yiv3323324919ygrp-mkp #yiv3323324919hd {color:#628c2a;font-size:85%;font-weight:700;line-height:122%;margin:10px 0;}#yiv3323324919 #yiv3323324919ygrp-mkp #yiv3323324919ads {margin-bottom:10px;}#yiv3323324919 #yiv3323324919ygrp-mkp .yiv3323324919ad {padding:0 0;}#yiv3323324919 #yiv3323324919ygrp-mkp .yiv3323324919ad p {margin:0;}#yiv3323324919 #yiv3323324919ygrp-mkp .yiv3323324919ad a {color:#0000ff;text-decoration:none;}-->

You can use 'almost' any PCMCIA card in the 8924 series.Mine uses a CF card, and it is a 4GB capacity. Used to store screen shots for site surveys.
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  Was wondering if a PCMCIA adapter card could be used, I have seen some that can take a sdcard or even compact flash, some even have external capabilities but am unsure if these would work. I have not been able to find any cheaper than about $80 used, would like a cheap alternative. also wondered what all you can do with this , I have the programming manual but havent read into it yet.

# 2418. Re: [hp8924] 8924C Won't Power Up

Yahoo group: hp8924
Date: 2016-06-23 18:14:37 UTC
From: Ralph Mowery
Topic: 2416  Message: 2418

Look in the back of the 8924 on the lower left side as you look at it from the back.  There should be a round hole and a green led should be lit up with it plugged in to the AC.  If not either you are not supplying power to the 8924 or the power supply is bad, even if you think you have a known good one.  The switch has nothing to do with that led.  It will come on with the switch off or on anytime there is AC power to the 8924.
Several years ago I had one that was slow to turn on so got a rebuilt one from Amtronix.
 The led would  not light up on that one and I called them and they sent me another.  It worked fine after that.

From: "gretske@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Thursday, June 23, 2016 2:03 PM
Subject: [hp8924] 8924C Won't Power Up

<!--#yiv9200200348 #yiv9200200348 .yiv9200200348ygrp-photo-title{clear:both;font-size:smal
ler;height:15px;overflow:hidden;text-align:center;width:75px;}#yiv9200200348 div.yiv920020
0348ygrp-photo{background-position:center;background-repeat:no-repeat;background-color:whi
te;border:1px solid black;height:62px;width:62px;}#yiv9200200348
div.yiv9200200348photo-title a, #yiv9200200348 div.yiv9200200348photo-title a:active,
#yiv9200200348 div.yiv9200200348photo-title a:hover, #yiv9200200348
div.yiv9200200348photo-title a:visited {text-decoration:none;}#yiv9200200348
div.yiv9200200348attach-table div.yiv9200200348attach-row {clear:both;}#yiv9200200348
div.yiv9200200348attach-table div.yiv9200200348attach-row div {float:left;}#yiv9200200348
p {clear:both;padding:15px 0 3px 0;overflow:hidden;}#yiv9200200348
div.yiv9200200348ygrp-file {width:30px;}#yiv9200200348 div.yiv9200200348attach-table
div.yiv9200200348attach-row div div a {text-decoration:none;}#yiv9200200348
div.yiv9200200348attach-table div.yiv9200200348attach-row div div span
{font-weight:normal;}#yiv9200200348 div.yiv9200200348ygrp-file-title
{font-weight:bold;}#yiv9200200348 --> <!--#yiv9200200348 #yiv9200200348ygrp-mkp
{border:1px solid #d8d8d8;font-family:Arial;margin:10px 0;padding:0 10px;}#yiv9200200348
#yiv9200200348ygrp-mkp hr {border:1px solid #d8d8d8;}#yiv9200200348 #yiv9200200348ygrp-mkp
#yiv9200200348hd {color:#628c2a;font-size:85%;font-weight:700;line-height:122%;margin:10px
0;}#yiv9200200348 #yiv9200200348ygrp-mkp #yiv9200200348ads
{margin-bottom:10px;}#yiv9200200348 #yiv9200200348ygrp-mkp .yiv9200200348ad {padding:0
0;}#yiv9200200348 #yiv9200200348ygrp-mkp .yiv9200200348ad p {margin:0;}#yiv9200200348
#yiv9200200348ygrp-mkp .yiv9200200348ad a {color:#0000ff;text-decoration:none;}-->

Hello all,I have had an HP 8924C for 4 years and use it somewhat frequently. A couple of weeks ago, I turned on the power switch, and nothing happened. I have not moved it or changed anything. I checked the power at the end of the AC power cord and it is OK. I assumed the power supply, so I got a known good replacement. Same thing. I don't see an led lighting, and nothing is happening. I am suspecting the power switch. Can it be tested at the power supply connectors? There is a lead marked, "ON/OFF" and another marked "LINE SYNC." Can you power it up around the front panel switch?
How do you get to the switch to check it, or replace it?
Am I missing anything else. Any other suggestion gratefully accepted.

GeneW4DSN

# 2419. Re: [hp8924] Memory Card?

Yahoo group: hp8924
Date: 2016-06-23 18:28:06 UTC
From: robert8rpi@...
Topic: 2404  Message: 2419

Hi Ernest,
Exactly which adaptor and CF card have you used in the 8924c? I've tried loads with little luck
As far as I know the 8924C will only write to RAM, not Flash. I've never seen a RAM CF card so am interested to know how you use a CF card to store screen shots.

Regards,
Robert G8RPI

# 2420. Re: [hp8924] 8924C Won't Power Up

Yahoo group: hp8924
Date: 2016-06-23 18:38:31 UTC
From: gretske@...
Topic: 2416  Message: 2420

OK Ralph -

I unplugged everything, removed the power supply and reseated everything. Now it works! I put the old PS back in and it did not work. Guess everything was not fully seated.

Thanks for your quick response!

-gene
W4DSN

# 2421. Re: [hp8924] 8924C Won't Power Up

Yahoo group: hp8924
Date: 2016-06-23 18:50:30 UTC
From: Ralph Mowery
Topic: 2416  Message: 2421

Glad you got it going Gene.  Seems that many of the 'computer' problems can be cured by reseating the cards.
I hope you tried the supply before you replaced all the screws in the cabinet.  When I replace the supply in mine the first time, I did not test it and had to remove all the screws for a second time.
 Where I worked we often had to reseat cards in the various instruments.  One room had about 20 cabinets  that had about 8 to 16 cards on each row and about 8 rows.  Lot of plug in cards that could have a bad connection.
73

From: "gretske@solvox.com [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Thursday, June 23, 2016 2:38 PM
Subject: Re: [hp8924] 8924C Won't Power Up

#yiv0525663078 #yiv0525663078 -- #yiv0525663078 .yiv0525663078ygrp-photo-title{clear:both;
font-size:smaller;height:15px;overflow:hidden;text-align:center;width:75px;}#yiv0525663078
div.yiv0525663078ygrp-photo{background-position:center;background-repeat:no-repeat;backgro
und-color:white;border:1px solid black;height:62px;width:62px;}#yiv0525663078
div.yiv0525663078photo-title a, #yiv0525663078 div.yiv0525663078photo-title a:active,
#yiv0525663078 div.yiv0525663078photo-title a:hover, #yiv0525663078
div.yiv0525663078photo-title a:visited {text-decoration:none;}#yiv0525663078
div.yiv0525663078attach-table div.yiv0525663078attach-row {clear:both;}#yiv0525663078
div.yiv0525663078attach-table div.yiv0525663078attach-row div {float:left;}#yiv0525663078
p {clear:both;padding:15px 0 3px 0;overflow:hidden;}#yiv0525663078
div.yiv0525663078ygrp-file {width:30px;}#yiv0525663078 div.yiv0525663078attach-table
div.yiv0525663078attach-row div div a {text-decoration:none;}#yiv0525663078
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{font-weight:normal;}#yiv0525663078 div.yiv0525663078ygrp-file-title
{font-weight:bold;}#yiv0525663078 #yiv0525663078 #yiv0525663078 #yiv0525663078
--#yiv0525663078ygrp-mkp {border:1px solid #d8d8d8;font-family:Arial;margin:10px
0;padding:0 10px;}#yiv0525663078 #yiv0525663078ygrp-mkp hr {border:1px solid
#d8d8d8;}#yiv0525663078 #yiv0525663078ygrp-mkp #yiv0525663078hd
{color:#628c2a;font-size:85%;font-weight:700;line-height:122%;margin:10px
0;}#yiv0525663078 #yiv0525663078ygrp-mkp #yiv0525663078ads
{margin-bottom:10px;}#yiv0525663078 #yiv0525663078ygrp-mkp .yiv0525663078ad {padding:0
0;}#yiv0525663078 #yiv0525663078ygrp-mkp .yiv0525663078ad p {margin:0;}#yiv0525663078
#yiv0525663078ygrp-mkp .yiv0525663078ad a
{color:#0000ff;text-decoration:none;}#yiv0525663078

OK Ralph -
I unplugged everything, removed the power supply and reseated everything. Now it works! I put the old PS back in and it did not work. Guess everything was not fully seated.
Thanks for your quick response!
-geneW4DSN

# 2422. Re: [hp8924] 8924C Won't Power Up

Yahoo group: hp8924
Date: 2016-06-23 19:47:12 UTC
From: gretske@...
Topic: 2416  Message: 2422

Ralph -

I am old time phone company, so reseating was one of the routine early repair tricks. Once I reseated the connectors on the PS and the chassis, it fired right up. I did put the old supply back in, just to see, but it did not come up. I will open it up and see if I can find out what is bad and fix it later. I counted 8,354,120 screws taken out, and only 12 left over, so I guess I did not do too bad.

Thanks for your advice!

Gene
W4DSN

# 2423. Re: [hp8924] Memory Card?

Yahoo group: hp8924
Date: 2016-06-23 20:12:08 UTC
From: Ernest Erickson
Topic: 2404  Message: 2423

I would have to check, but if this helps, the card has an image of a Dolphin, or some type of marine 'fish' on the card.
The PCMCIA adaptor is a little-known brand. Neither are with me today.

A.E.C RADIO
On Jun 23, 2016 11:01 AM, "Ralph Mowery ku4pt@yahoo.com [hp8924]" <hp8924@yahoogroups.com> wrote:

Can you point to exectally which CF pcmcia card you are using ?

I have a 512 MB card and it will not read or write to it. The card works in a computer because I can write to it and read back from it. The 8924 tells me that the card needs to be initilized and it can not do that because it is write protected.

I know the 8924 works because I have 2 types of pcmcia memory cards and they both read and write.
One has a battery and it has to be replace about every year if I want to use it. The other card has an on board battery that is recharged from the 8924c while in the slot.

From: "Ernest Erickson aecglobe@yahoo.com [hp8924]" <hp8924@yahoogroups.com>
To: "ob1kinobi1999@yahoo.com [hp8924]" <hp8924@yahoogroups.com>
Sent: Thursday, June 23, 2016 12:42 PM
Subject: Re: [hp8924] Memory Card?

You can use 'almost' any PCMCIA card in the 8924 series.
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On Jun 22, 2016 6:24 PM, "ob1kinobi1999@yahoo.com [hp8924]" <hp8924@yahoogroups.com> wrote:

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# 2424. Re: [hp8924] Re: Hello all, Need some questions answered

Yahoo group: hp8924
Date: 2016-06-23 20:14:41 UTC
From: Ernest Erickson
Topic: 2402  Message: 2424

Always use the type 'N' conbector for RF measurement. RX can be handled best through the ANT. port, then the duplex port if testing split channel radios(duplexed).

A.E.C RADIO
On Jun 23, 2016 10:15 AM, "robert8rpi@yahoo.co.uk [hp8924]" <hp8924@yahoogroups.com> wrote:

Transmitting up the RX or Duplexer ports causes damage. With an external attenuator you never connect a TX directly to the test se so are less likely to make the slip. There is no difference in performance with an external attenuator, the offset dB function applies to both directions of the port so you don't have to do any mental math.
I've just repaired a 8920A that had been transmitted up for a friend. I dont know what the power was but it took out two PIN diodes, twoo attenuator sections and a couple of resistors. Fortunatly I had an input module from a 8922x and was able to to rob the required parts from it.

Robert G8RPI.

# 2425. Re: [hp8924] Re: Hello all, Need some questions answered

Yahoo group: hp8924
Date: 2016-06-23 20:53:53 UTC
From: Glenn Little WB4UIV
Topic: 2402  Message: 2425

How did you get the 8924 to display a sub-audible spectrum and why would you expect a sub-audible carrier to be able to support an audible modulation???

mHz - milli Hertz, MHz = Mega Hertz.

Glenn
WB4UIV

On 6/23/2016 12:44 PM, Ernest Erickson aecglobe@... [hp8924] wrote:
>
>
> Actually, anything above 1.50 mHz. will cut off the internal speaker.
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> A.E.C RADIO
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> <hp8924@yahoogroups.com> wrote:
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> If you have the spectrum analyser band width set too wide, the audio
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>
> Sent from Samsung tablet
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Glenn Little ARRL Technical Specialist QCWA LM 28417
Amateur Callsign: WB4UIV wb4uiv@... AMSAT LM 2178
QTH: Goose Creek, SC USA (EM92xx) USSVI LM NRA LM SBE ARRL TAPR
"It is not the class of license that the Amateur holds but the class of the Amateur that holds the license"
---

# 2426. Re: [hp8924] Re: Hello all, Need some questions answered

Yahoo group: hp8924
Date: 2016-06-23 21:01:47 UTC
From: Ernest Erickson
Topic: 2402  Message: 2426

The analyzer does not accept a wide band signal with audio. I routinely display a far narrower bandwidth (less than 100 Hz.) for signal quality. The speaker gets cut off once you exceed 1.5 mHz. Too much bandwidth to decode.
A speaker us useless for me at the frequencies I look at, as I am far more interested in sine wave quality and signal accuracy and levels, such as a VCO output. Any audio impinging on such signals ruins the measurement.
I desire a pure carrier. Audio is of no concern.

A.E.C RADIO
On Jun 23, 2016 13:53, "Glenn Little WB4UIV glennmaillist@bellsouth.net [hp8924]" <hp8924@yahoogroups.com> wrote:

How did you get the 8924 to display a sub-audible spectrum and why would you expect a sub-audible carrier to be able to support an audible modulation???

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WB4UIV

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> Sent from Samsung tablet
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Amateur Callsign: WB4UIV wb4uiv@arrl.net AMSAT LM 2178
QTH: Goose Creek, SC USA (EM92xx) USSVI LM NRA LM SBE ARRL TAPR
"It is not the class of license that the Amateur holds but the class of the Amateur that holds the license"
---

# 2427. Re: [hp8924] 8924C Won't Power Up

Yahoo group: hp8924
Date: 2016-06-23 21:18:39 UTC
From: Glenn Little WB4UIV
Topic: 2416  Message: 2427

The problem with the supply is probably not obvious.
If like others switching supplies, the problem is aluminum electrolytic capacitors that have excessive ESR.
If mine I would replace all of the aluminum electrolytic capacitors with ones rated at 105 decrees C and rated for high ripple current.

Unless you like to remove the supply and replace the capacitor that you test as bad.

It is like rebuilding a car engine.
You do not go in and replace the one faulty ring, you replace all of the rings and be done with the job.

73
Glenn
WB4UIV

On 6/23/2016 3:47 PM, gretske@... [hp8924] wrote:
>
>
> Ralph -
>
> I am old time phone company, so reseating was one of the routine early
> repair tricks. Once I reseated the connectors on the PS and the chassis,
> it fired right up. I did put the old supply back in, just to see, but it
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"It is not the class of license that the Amateur holds but the class of the Amateur that holds the license"
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# 2428. Re: Hello all, Need some questions answered

Yahoo group: hp8924
Date: 2016-06-23 22:10:52 UTC
From: ob1kinobi1999@...
Topic: 2402  Message: 2428

ok not sure where this part of reply came from that has me talking about audio spectrum's, if i use testrx and put in my handheld radio frequency and talk into the radio my monitor should hear that and i should be able to hear audio from it. at the time i was not on spectrum, i was testrx.

# 2429. Re: Hello all, Need some questions answered

Yahoo group: hp8924
Date: 2016-06-23 22:14:32 UTC
From: ob1kinobi1999@...
Topic: 2402  Message: 2429

I do have a 500watt 50 ohm dummy load that looks similar to that attenuator in the pic, but it has only 1 solder tab on the side. I was going to take this and use a hi imp. voltage divider(pot) to tap of of for the input signal. but i thought if i was lucky that option would already be installed.

# 2430. Re: 8924C Won't Power Up

Yahoo group: hp8924
Date: 2016-06-23 22:21:24 UTC
From: ob1kinobi1999@...
Topic: 2416  Message: 2430

as far as checking the switch, take the cover off and the faceplate, you will have to remove the large nuts on the n and bnc connector for it to come off. took me half an hour to figure that out.

# 2431. Re: [hp8924] 8924C Won't Power Up

Yahoo group: hp8924
Date: 2016-06-23 22:22:26 UTC
From: Frederick Bray
Topic: 2416  Message: 2431

There is also a well-documented issue with a capacitor or two on one of the small, vertical PC boards that is mounted on the main power supply board. Frequently, start-up problems are solved by replacing these capacitors.

This is covered in the "files" section of this discussion group.

KE6CD

On 6/23/2016 11:03 AM, gretske@... [hp8924] wrote:
>
>
> Hello all,
>
> I have had an HP 8924C for 4 years and use it somewhat frequently. A
> couple of weeks ago, I turned on the power switch, and nothing
> happened. I have not moved it or changed anything. I checked the power
> at the end of the AC power cord and it is OK. I assumed the power
> supply, so I got a known good replacement. Same thing. I don't see an
> led lighting, and nothing is happening. I am suspecting the power
> switch. Can it be tested at the power supply connectors? There is a
> lead marked, "ON/OFF" and another marked "LINE SYNC." Can you power it
> up around the front panel switch?
>
>
> How do you get to the switch to check it, or replace it?
>
>
> Am I missing anything else. Any other suggestion gratefully accepted.
>
>
> Gene
>
> W4DSN
>
>
>
>

# 2432. 8924c will not poer up

Yahoo group: hp8924
Date: 2016-06-24 14:38:03 UTC
From: <wd0giv@...>
Topic: 2432  Message: 2432

Hey all,
My 8924c will not power up. I have read all the post and archives on this. I even bought a supposedly good supply and swapped it, no go. The 15 volt supply is working on both. I have even done the re-seating all boards and no go. I am now re-capping the board behind the display modual and the caps on the mother board behind the CRT display. I took the time to explore the power switch. It is using reverse logic much the way Tektronix does. This was done in the TEK world so if the switch fails your scopes could still be used as they would be "on" always till the switch was replaced. I think HP did the same thing.When the unit is off the switch is closed at some point forcing the supply off. In TEK would this is direct connection to the supply. I am tracing it to see if that is the case in HP. Does anyone know ALL the conditions needed to bring up the supply? Since there is a "program" pin and line sync pins on the supply they may be involved. Any thoughts on a way to bring this guy back to life?
73Richard
ARS  WD0GIV

PS an electric screw driver is a must with this scope.

# 2433. Re: 8924c will not poer up

Yahoo group: hp8924
Date: 2016-06-25 02:19:08 UTC
From: willcoele@...
Topic: 2432  Message: 2433

When the power is off and the unit is plugged in, is the green LED on the back lit up?

# 2434. Re: [hp8924] Re: Hello all, Need some questions answered

Yahoo group: hp8924
Date: 2016-06-27 18:21:23 UTC
From: ob1kinobi1999@...
Topic: 2402  Message: 2434

looking online at those attenuators, i found a nice 250watt 20db for $40
i can mount that in a external metal box with a large heatsink and use that correct?

also i was reading that attenuators in series are additive, so would i add the 20db to whats internal? is this going to be a problem for watts?

# 2435. Re: [hp8924] Re: Hello all, Need some questions answered

Yahoo group: hp8924
Date: 2016-06-27 18:35:51 UTC
From: robert8rpi@...
Topic: 2402  Message: 2435

Hi,
Yes you can use that on a suitable heatsink. Attenuation is additive. You can either mentally add 20dB to all the readings, or much more easily, if you go into the configuration page of the 8924C you can enter 20dB as an offset to the RF IN/OUT port and all the readings and settings (power meter, signal gnerator, spectrum analyser etc) will be corrected for the external attenuator.

HTH,
Robert G8RPI

# 2436. Re: [hp8924] Re: Hello all, Need some questions answered

Yahoo group: hp8924
Date: 2016-06-27 18:54:42 UTC
From: Ralph Mowery
Topic: 2402  Message: 2436

It will be fine to get a great big heat sink and mount the attenuator to it.  Just make sure the leads are short and direct to some connectors as not to mess up the impedance.  I assume that is one that is about an inch or so  square and does not come on a heat sink.
When you use an external Attenuator you can keep track mentally by just moving the decimal point over 2 places when measuring watts.  Add or subtract 20 db when using the DB scale, and I leave the voltage to you.
As pointed out you can go to a setup screen and set the 8924 up to compensate for the 20 db of the attenuator.

From: "ob1kinobi1999@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Monday, June 27, 2016 2:21 PM
Subject: Re: [hp8924] Re: Hello all, Need some questions answered

looking online at those attenuators, i found a nice 250watt 20db for $40
i can mount that in a external metal box with a large heatsink and use that correct?

also i was reading that attenuators in series are additive, so would i add the 20db to whats internal? is this going to be a problem for watts?

---
Posted by: ob1kinobi1999@...
---

---

Yahoo Groups Links

# 2437. firmware

Yahoo group: hp8924
Date: 2016-07-23 03:06:53 UTC
From: nvradtec1@...
Topic: 2437  Message: 2437

can someone tell me what the latest firmware was for the 8924C, I just picked one up that appears to have a lot of options, also with the 100 watt option.

Now just gotta learn how to use it, I'm used to my Marconi 2955

Thanks
Steve

# 2438. Re: [hp8924] firmware

Yahoo group: hp8924
Date: 2016-07-23 03:20:23 UTC
From: Ralph Mowery
Topic: 2437  Message: 2438

Not sure what the latest is but know that it is up to 8. something.
The 8924c does almost everything you can think of.  If you don't know it, the books for the 8924c are almost worthless for the operation if you are not looking at a cell phone.  YOu can go to the HP: web site and download the information for the 8920.  The 8924c is very similar to it.  Some of the keystrokes will be different and the buttons may be labeled different.
Go to here and look around.

http://www.amtronix.com/hp8924c60.htm

From: "nvradtec1@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Friday, July 22, 2016 11:06 PM
Subject: [hp8924] firmware

<!--#yiv9339742833 #yiv9339742833 .yiv9339742833ygrp-photo-title{clear:both;font-size:smal
ler;min-height:15px;overflow:hidden;text-align:center;width:75px;}#yiv9339742833 div.yiv93
39742833ygrp-photo{background-position:center;background-repeat:no-repeat;background-color
:white;border:1px solid black;min-height:62px;width:62px;}#yiv9339742833
div.yiv9339742833photo-title a, #yiv9339742833 div.yiv9339742833photo-title a:active,
#yiv9339742833 div.yiv9339742833photo-title a:hover, #yiv9339742833
div.yiv9339742833photo-title a:visited {text-decoration:none;}#yiv9339742833
div.yiv9339742833attach-table div.yiv9339742833attach-row {clear:both;}#yiv9339742833
div.yiv9339742833attach-table div.yiv9339742833attach-row div {float:left;}#yiv9339742833
p {clear:both;padding:15px 0 3px 0;overflow:hidden;}#yiv9339742833
div.yiv9339742833ygrp-file {width:30px;}#yiv9339742833 div.yiv9339742833attach-table
div.yiv9339742833attach-row div div a {text-decoration:none;}#yiv9339742833
div.yiv9339742833attach-table div.yiv9339742833attach-row div div span
{font-weight:normal;}#yiv9339742833 div.yiv9339742833ygrp-file-title
{font-weight:bold;}#yiv9339742833 --> <!--#yiv9339742833 #yiv9339742833ygrp-mkp
{border:1px solid #d8d8d8;font-family:Arial;margin:10px 0;padding:0 10px;}#yiv9339742833
#yiv9339742833ygrp-mkp hr {border:1px solid #d8d8d8;}#yiv9339742833 #yiv9339742833ygrp-mkp
#yiv9339742833hd {color:#628c2a;font-size:85%;font-weight:700;line-height:122%;margin:10px
0;}#yiv9339742833 #yiv9339742833ygrp-mkp #yiv9339742833ads
{margin-bottom:10px;}#yiv9339742833 #yiv9339742833ygrp-mkp .yiv9339742833ad {padding:0
0;}#yiv9339742833 #yiv9339742833ygrp-mkp .yiv9339742833ad p {margin:0;}#yiv9339742833
#yiv9339742833ygrp-mkp .yiv9339742833ad a {color:#0000ff;text-decoration:none;}-->

can someone tell me what the latest firmware was for the 8924C, I just picked one up that appears to have a lot of options, also with the 100 watt option.

Now just gotta learn how to use it, I'm used to my Marconi 2955

Thanks
Steve

# 2439. Re: [hp8924] firmware

Yahoo group: hp8924
Date: 2016-07-23 08:32:55 UTC
From: Robert Atkinson
Topic: 2437  Message: 2439

Hi Steve,The 8924C is basically a 8920B with all the options and a CDMA cellphone adaptor in a big box. As Ralph says thr 8924C manuals are heavilly biased to cellphone use. For specifications especially frequency range use te 8920B manuals. The 8920A user guides and training material are fully applicable one you work out some of the key and menu differences.As far as I know a 100W input was not  factory option on the 8924C, but many users made this modification by fitting the 8920x input attenuator.
What options are marked on the back of the unit?
Robert G8RPI.

From: "nvradtec1@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Saturday, 23 July 2016, 4:06
Subject: [hp8924] firmware

  can someone tell me what the latest firmware was for the 8924C, I just picked one up that appears to have a lot of options, also with the 100 watt option.

Now just gotta learn how to use it, I'm used to my Marconi 2955

Thanks
Steve

# 2440. Re: 8924c will not poer up

Yahoo group: hp8924
Date: 2016-07-23 12:54:25 UTC
From: wd0giv@...
Topic: 2432  Message: 2440

yes the green LED was on. I have found the problem and it is a new one. All should take note. The power switch is arranged just like many Tektronix models. The switch is closed to turn the unit off. This makes a switch failure intrinsically in the on or useful state.The switch goes directly to the filter regulator board located behind the CRT and were the power supply tow cables plug into. I baught a working supply and still no luck so I figured the problem had to be on the filter reg board. After extensive search I got a part number and found one on Ebay. sure enough bam the supply now comes up. I had changed all the caps on the board and no luck. there is a few IC`s and other parts on this board. I am continuing to try to find the bad part on the bad board. I have amassed a large amount of documents on this scope and will post when I get time. Should anyone need a spare supply I have one fore sale on ebay as I ended up with three. I am keeping one as a spare.I do not have schematics for the supply or the filter regulator board. I do have circuit theory descriptions and that is how I learned what the filter regulator board does. While no one answered my request for the turn on voltage ,I now have it....wait for it.....+8 volts is used to turn on the supply.This now makes it possible to test supplies outside of the scope. I am going to build a tester/load jig so I can work on them easier. I just read someones post saying the factory did not make any 100Watt units and they were all user modified. Sorry this guy is wrong I found documents from HP describing this option and my scope has the appropriate parts installed right were they are described in the HP docs.

# 2441. Re: [hp8924] firmware

Yahoo group: hp8924
Date: 2016-07-23 19:13:47 UTC
From: Steve Guitar
Topic: 2437  Message: 2441

Is there a way on the 8924 to see installed options from the screen? The only tag on the back says OPT H14 and I know it has more

Thanks

On July 23, 2016 1:33:06 AM "Robert Atkinson robert8rpi@... [hp8924]" <hp8924@yahoogroups.com> wrote:

> Hi Steve,The 8924C is basically a 8920B with all the options and a CDMA
> cellphone adaptor in a big box. As Ralph says thr 8924C manuals are
> heavilly biased to cellphone use. For specifications especially frequency
> range use te 8920B manuals. The 8920A user guides and training material are
> fully applicable one you work out some of the key and menu differences.As
> far as I know a 100W input was not  factory option on the 8924C, but many
> users made this modification by fitting the 8920x input attenuator.
> What options are marked on the back of the unit?
> Robert G8RPI.
>
>
> From: "nvradtec1@... [hp8924]" <hp8924@yahoogroups.com>
> To: hp8924@yahoogroups.com
> Sent: Saturday, 23 July 2016, 4:06
> Subject: [hp8924] firmware
>
>  can someone tell me what the latest firmware was for the 8924C, I just
> picked one up
> that appears to have a lot of options, also with the 100 watt option.
>
> Now just gotta learn how to use it, I'm used to my Marconi 2955
>
> Thanks
> Steve
>
>

# 2442. Re: [hp8924] firmware

Yahoo group: hp8924
Date: 2016-07-23 19:29:43 UTC
From: Steve Guitar
Topic: 2437  Message: 2442

I forgot it shows V 06.25 for firmware

On July 23, 2016 12:14:04 PM "Steve Guitar nvradtec1@... [hp8924]" <hp8924@yahoogroups.com> wrote:

> Is there a way on the 8924 to see installed options from the screen? The
> only tag on the back says OPT H14 and I know it has more
>
> Thanks
>
>
> On July 23, 2016 1:33:06 AM "Robert Atkinson robert8rpi@...
> [hp8924]" <hp8924@yahoogroups.com> wrote:
>
>> Hi Steve,The 8924C is basically a 8920B with all the options and a CDMA
>> cellphone adaptor in a big box. As Ralph says thr 8924C manuals are
>> heavilly biased to cellphone use. For specifications especially frequency
>> range use te 8920B manuals. The 8920A user guides and training material are
>> fully applicable one you work out some of the key and menu differences.As
>> far as I know a 100W input was not  factory option on the 8924C, but many
>> users made this modification by fitting the 8920x input attenuator.
>> What options are marked on the back of the unit?
>> Robert G8RPI.
>>
>>
>> From: "nvradtec1@... [hp8924]" <hp8924@yahoogroups.com>
>> To: hp8924@yahoogroups.com
>> Sent: Saturday, 23 July 2016, 4:06
>> Subject: [hp8924] firmware
>>
>>  can someone tell me what the latest firmware was for the 8924C, I just
>> picked one up
>> that appears to have a lot of options, also with the 100 watt option.
>>
>> Now just gotta learn how to use it, I'm used to my Marconi 2955
>>
>> Thanks
>> Steve
>>
>>

# 2443. Re: [hp8924] firmware

Yahoo group: hp8924
Date: 2016-07-23 19:47:29 UTC
From: Ralph Mowery
Topic: 2437  Message: 2443

Easy to do after spending a month learning how to operate the set..
At the top of the 8924c there is a row of buttons.  Press the one that says TESTS, it is above and just to the left of  the  7 key of the keypad.  You can also get there by going to the bottom right of the screen and selecting the TESTS from there.
Curser  to the 'load test procedures'.  Go to the bottom right and curser to the ROM and press the round dial to select that.
Curser down one space to Select Proceduers Filename.  Go back to the bottom right and go to LISTOPTS.  Select that by pressing in on the dial.  Then press the K1 button just to the right of the screen to Run Tests.
It should then list the options on the screen.

If you have not done it, go to the Amtronix page and see how to set it up so it will come up like you want it to.  Once you get the 8924 set like you want it, you can use the POWERON save and every time you turn the set on it will come up that way.It is under the heading of something like 'make the set turn on like the 8920.
The 8924c comes with many things built into it.  They don't often have very many options as they are not often needed.

From: "Steve Guitar nvradtec1@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Saturday, July 23, 2016 3:13 PM
Subject: Re: [hp8924] firmware

#yiv9177029206 #yiv9177029206 -- #yiv9177029206 .yiv9177029206ygrp-photo-title{clear:both;
font-size:smaller;min-height:15px;overflow:hidden;text-align:center;width:75px;}#yiv917702
9206 div.yiv9177029206ygrp-photo{background-position:center;background-repeat:no-repeat;ba
ckground-color:white;border:1px solid black;min-height:62px;width:62px;}#yiv9177029206
div.yiv9177029206photo-title a, #yiv9177029206 div.yiv9177029206photo-title a:active,
#yiv9177029206 div.yiv9177029206photo-title a:hover, #yiv9177029206
div.yiv9177029206photo-title a:visited {text-decoration:none;}#yiv9177029206
div.yiv9177029206attach-table div.yiv9177029206attach-row {clear:both;}#yiv9177029206
div.yiv9177029206attach-table div.yiv9177029206attach-row div {float:left;}#yiv9177029206
p {clear:both;padding:15px 0 3px 0;overflow:hidden;}#yiv9177029206
div.yiv9177029206ygrp-file {width:30px;}#yiv9177029206 div.yiv9177029206attach-table
div.yiv9177029206attach-row div div a {text-decoration:none;}#yiv9177029206
div.yiv9177029206attach-table div.yiv9177029206attach-row div div span
{font-weight:normal;}#yiv9177029206 div.yiv9177029206ygrp-file-title
{font-weight:bold;}#yiv9177029206 #yiv9177029206

Is there a way on the 8924 tosee installed options from the screen? The only tag on the back says OPTH14 and I know it has moreThanks

# 2444. 8920B Power Supply Problems

Yahoo group: hp8924
Date: 2016-07-26 22:52:03 UTC
From: cahelstrom@...
Topic: 2444  Message: 2444

I have a 8920B that smoked the power supply. Found charred PCB under one of the 5 Volt filter capacitors. Replaced that cap, but supply still doesn't work. Will produce voltages below spec. on all outputs, being powered by AC or DC (therefore doesn't appear to be on the input side of the supply).

5 volt output produces 1.4 v, 12 volt output produces 1 v, +/- 12 volts outputs produce +/- 8 v, and the 40 volt output produces 24 v. It appears the switching circuits are switching, just not at a proper rate to produce
full output.

Anyone run into similar problems and solution, or could point me to a repair service that has experience with these supplies?

# 2445. Re: [hp8924] 8920B Power Supply Problems

Yahoo group: hp8924
Date: 2016-07-26 23:23:06 UTC
From: Ralph S. Turk
Topic: 2444  Message: 2445

Amtronix.com. Rick should be able to help you.
Ralph, W7HSG

----- Original Message -----

From: "cahelstrom@... [hp8924]" <hp8924@yahoogroups.com>
To: "hp8924" <hp8924@yahoogroups.com>
Sent: Tuesday, July 26, 2016 3:52:03 PM
Subject: [hp8924] 8920B Power Supply Problems

I have a 8920B that smoked the power supply. Found charred PCB under one of the 5 Volt filter capacitors. Replaced that cap, but supply still doesn't work. Will produce voltages below spec. on all outputs, being powered by AC or DC (therefore doesn't appear to be on the input side of the supply).

5 volt output produces 1.4 v, 12 volt output produces 1 v, +/- 12 volts outputs produce +/- 8 v, and the 40 volt output produces 24 v. It appears the switching circuits are switching, just not at a proper rate to produce

full output.

Anyone run into similar problems and solution, or could point me to a repair service that has experience with these supplies?

# 2446. HP 8935 Backup Battery Issue

Yahoo group: hp8924
Date: 2016-08-06 21:09:12 UTC
From: fwbray@...
Topic: 2446  Message: 2446

Today, my HP 8935 indicated that the memory backup battery was low. This consists of two "AA" batteries mounted in a holder inside the rear cover. Since they were last changed 4 years ago, this wasn't surprising.

I replaced both batteries, carefully observing polarity. While replacing the real cover, I noticed that the batteries were getting extremely warm. After removing the batteries, I determined that the resistance across the output terminals was 0.3 ohms. Further investigation indicates that the resistance between the positive wire running into the unit displays the same resistance value to the chassis. (This is with the negative wire terminal lifted from the chassis.) Perhaps a capacitor on the memory board has shorted?

Since disassembly of the 8935 takes a bit of effort, I wonder whether anyone else has encountered this failure.

I also would like to find a relevant schematic but so far haven't come across one.

Thanks in advance.

KE6CD

# 2447. Re: 8924c will not poer up

Yahoo group: hp8924
Date: 2016-08-07 04:10:31 UTC
From: wd0giv@...
Topic: 2432  Message: 2447

FYI all the power up voltage is 8 volts. This is developed on the filter board the power supply plugs into. The power switch is actually a normally closed switch, normal failure would be open thus turning on the scope. I am not sure if they sum all the correct voltages to get this 8 volts or not.

# 2448. HP 8935 Memory Battery Issue

Yahoo group: hp8924
Date: 2016-08-06 19:53:18 UTC
From: fwbray@...
Topic: 2448  Message: 2448

On power-up my today, my 8935 indicated that the "AA" memory batteries were low. Not surprising as they were 4 years old.

I installed two new batteries, observing polarity. As I was putting the rear cover back on the unit, I noticed that they were getting very warm. I removed them before any serious damage was done, although some plastic around the terminals did get soft. After letting everything cool, I replaced the batteries with another set (again carefully checking the polarity orientation of the batteries) and the same problem recurred.

I surmised that the problem (short) lies in the battery holder, as the small gauge wires that connect the battery holder to the unit are completely intact and undamaged.

I plan to replace the holder but further disassembly is required as it's secured with rivets from the other side of the panel. I don't have time to do this today. However, it is possible that the problem is elsewhere.

Has anyone else encountered this?

Thanks!

# 2449. Re: [hp8924] HP 8935 Memory Battery Issue

Yahoo group: hp8924
Date: 2016-08-09 02:04:45 UTC
From: Clif Holland
Topic: 2448  Message: 2449

They are probably rechargeable ones and regular will get hot. They don't like a charge.

Clif Holland KA5IPF
www.avvid.com
214-850-0973

On 8/6/2016 2:53 PM, fwbray@... [hp8924] wrote:
>
> On power-up my today, my 8935 indicated that the "AA" memory batteries
> were low. Not surprising as they were 4 years old.
>
> I installed two new batteries, observing polarity. As I was putting
> the rear cover back on the unit, I noticed that they were getting very
> warm. I removed them before any serious damage was done, although
> some plastic around the terminals did get soft. After letting
> everything cool, I replaced the batteries with another set (again
> carefully checking the polarity orientation of the batteries) and the
> same problem recurred.
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> I surmised that the problem (short) lies in the battery holder, as the
> small gauge wires that connect the battery holder to the unit are
> completely intact and undamaged.
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> I plan to replace the holder but further disassembly is required as
> it's secured with rivets from the other side of the panel. I don't
> have time to do this today. However, it is possible that the problem
> is elsewhere.
>
> Has anyone else encountered this?
>
> Thanks!
>
>

# 2450. Re: [hp8924] HP 8935 Memory Battery Issue

Yahoo group: hp8924
Date: 2016-08-09 02:34:38 UTC
From: F. W. Bray
Topic: 2448  Message: 2450

I know that some equipment uses rechargeable ones but here the manual calls for two alkaline cells and that's what I put in 4 years ago.

On further research, I found that the problem is more complicated. The positive lead reads 0.3 ohms to the chassis even with the negative lead lifted. My guess is that there could be a bad component on the memory board inside the unit. Perhaps a capacitor has shorted?

Interestingly, the "AA" batteries are backup for the coin cell mounted on the memory board. There's some type of battery controller but without a schematic it's hard to figure out before I open it up. I'm ordering a new coin battery and a holder and will then open the unit for repair.

Thanks.

KE6CD

> On Aug 8, 2016, at 7:04 PM, Clif Holland clif@... [hp8924] <hp8924@yahoogroups.com> wrote:
>
>
>
> They are probably rechargeable ones and regular will get hot. They don't like a charge.
> Clif Holland KA5IPF
> www.avvid.com
> 214-850-0973
>> On 8/6/2016 2:53 PM, fwbray@... [hp8924] wrote:
>> On power-up my today, my 8935 indicated that the "AA" memory batteries were low. Not surprising as they were 4 years old.
>>
>>
>>
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>>
>>
>>
>> I surmised that the problem (short) lies in the battery holder, as the small gauge wires that connect the battery holder to the unit are completely intact and undamaged.
>>
>>
>>
>> I plan to replace the holder but further disassembly is required as it's secured with rivets from the other side of the panel. I don't have time to do this today. However, it is

possible that the problem is elsewhere.
>>
>>
>>
>> Has anyone else encountered this?
>>
>>
>>
>> Thanks!
>>
>
>
>
>

# 2451. Re: HP 8935 Memory Battery Issue

Yahoo group: hp8924
Date: 2016-08-14 02:20:50 UTC
From: zl1cvd@...
Topic: 2448  Message: 2451

Quite possibly an electrolytic or tantalum cap failure is causing the low impedance reading.

Another point to note, the E8285A had similar issues. HP released a 'mod' for this model which is discussed here: http://www.amtronix.com/e8285a_mod.htm
http://www.amtronix.com/e8285a_mod.htm

The 8935's also have a button cell on the memory/sbrc assembly A2A30 - CR2477.

Also to note is the batteries only provide power to non essential stuff in SRAM - if they go flat, you'll lose any saved default setting but the equipment will still work just fine. Not like some early Kenwood transceivers that ended up useless if the batteries went flat.

73s de chris zl1cvd

# 2452. Re: [hp8924] Re: HP 8935 Memory Battery Issue

Yahoo group: hp8924
Date: 2016-08-14 14:50:24 UTC
From: Clif Holland
Topic: 2448  Message: 2452

Kenwood never had that problem, it was Icom that did.

Clif Holland KA5IPF
www.avvid.com
214-850-0973

On 8/13/2016 9:20 PM, zl1cvd@... [hp8924] wrote:
>
> Quite possibly an electrolytic or tantalum cap failure is causing the
> low impedance reading.
>
> Another point to note, the E8285A had similar issues. HP released a
> 'mod' for this model which is discussed here:
> http://www.amtronix.com/e8285a_mod.htm
>
> The 8935's also have a button cell on the memory/sbrc assembly A2A30 -
> CR2477.
>
> Also to note is the batteries only provide power to non essential
> stuff in SRAM - if they go flat, you'll lose any saved default setting
> but the equipment will still work just fine. Not like some early
> Kenwood transceivers that ended up useless if the batteries went flat.
>
> 73s de chris zl1cvd
>
>

# 2453. Re: [hp8924] Re: HP 8935 Memory Battery Issue

Yahoo group: hp8924
Date: 2016-08-15 12:27:01 UTC
From: zl1cvd@...
Topic: 2448  Message: 2453

Yes, thats right, you are correct. Icom problem, not Kenwood - I stand corrected! 73s om Chris ZL1CVD

# 2454. Measuring insertion loss

Yahoo group: hp8924
Date: 2016-08-30 17:04:16 UTC
From: tomasguerro@...
Topic: 2454  Message: 2454

Our duplexer is a Sinclair Q2330e VHF. When we first got it we were told that by rotating the loops we could adjust the insertion loss for times when you might need some extra attenuation or just best performance. Others told us no way but Sinclair confirmed this. But they tune using a network analyzer that I don't own or even know how to use. Any way, we have 6db of insertion loss that shouldn't be more than 1.4. I'm still learning this service monitor. I was able to tune the pass and reject. Can someone suggest how to test the insertion loss? I was thinking (dangerous) that if I use the monitor to generate an on frequency signal and then loop back to the spectrum analyzer and watch the change of the spike. Yes? I am a rookie and don't know quite what to ask.

Thank you.

Tomas Guerrero

# 2455. Re: [hp8924] Measuring insertion loss

Yahoo group: hp8924
Date: 2016-08-30 17:21:37 UTC
From: Clif Holland
Topic: 2454  Message: 2455

On my 8920. Got to SA and set up to tune the cavities. Tracking generator on etc. Take the end of the cables that are attached to your cavities and attach them to each other using a barrel connector. Go to Auxiliary Menu in SA and turn on Normalize then select A-B. The screen should show a solid line at zero dB. Remove the barrel and connect to the cavities and it will show insertion loss in dB.

Clif Holland KA5IPF
www.avvid.com
214-850-0973

On 8/30/2016 12:04 PM, tomasguerro@... [hp8924] wrote:
>
> Our duplexer is a Sinclair Q2330e VHF. When we first got it we were
> told that by rotating the loops we could adjust the insertion loss for
> times when you might need some extra attenuation or just best
> performance. Others told us no way but Sinclair confirmed this. But
> they tune using a network analyzer that I don't own or even know how
> to use. Any way, we have 6db of insertion loss that shouldn't be more
> than 1.4. I'm still learning this service monitor. I was able to tune
> the pass and reject. Can someone suggest how to test the insertion
> loss? I was thinking (dangerous) that if I use the monitor to generate
> an on frequency signal and then loop back to the spectrum analyzer and
> watch the change of the spike. Yes? I am a rookie and don't know quite
> what to ask.
>
> Thank you.
>
> Tomas Guerrero
>
>

# 2456. Re: [hp8924] Measuring insertion loss

Yahoo group: hp8924
Date: 2016-08-30 17:44:53 UTC
From: tomasguerro@...
Topic: 2454  Message: 2456

That's pretty darn simple! So it will show in real-time? That way I can turn the loops. Thank you so much, Cliff.

Tomas Guerrero

# 2457. Re: Measuring insertion loss

Yahoo group: hp8924
Date: 2016-08-30 17:52:05 UTC
From: Robert Atkinson
Topic: 2454  Message: 2457

Hi Tomas,The 8924C is  ideal for this, but does need a bit of set-up. The spectrum analyser and signal generator (in tracking mode) work together to make a network analyser (only scalar, not vector, but that's all you need). See this videohttps://www.youtube.com/watch?v=mLsfyKs9E00

The RF tools software (blatent plug, I can sell you this on a PCMCIA card) automates the process if you want accurate measurements, but the basic function is better for adjusting units.
Robrt G8RPI.

# 2458. Re: [hp8924] Measuring insertion loss

Yahoo group: hp8924
Date: 2016-08-30 17:52:51 UTC
From: Clif Holland
Topic: 2454  Message: 2458

I always do it that way so I can monitor the loss and pass at the same time. It's kinda a balancing act. Another thing on the older gear, Cushmans, if you changed from the tx pass to the rx pass frequencies you had to recalibrate. I never paid any attention on my HP as I wasn't trying for an exact loss figure.

When changing the loops for loss watch the shape of the pass, you may have to spread out a bit but it's interesting to watch it narrow up.

Amazing machine the HP service monitors. I still find new stuff sometimes, even after owning one for 20 years.

Clif Holland KA5IPF
www.avvid.com
214-850-0973

On 8/30/2016 12:44 PM, tomasguerro@... [hp8924] wrote:
>
> That's pretty darn simple! So it will show in real-time? That way I
> can turn the loops. Thank you so much, Cliff.
>
> Tomas Guerrero
>
>

# 2459. Re: [hp8924] Measuring insertion loss

Yahoo group: hp8924
Date: 2016-08-30 18:31:03 UTC
From: tomasguerro@...
Topic: 2454  Message: 2459

I'm liking it but it is new to me. I got handed the job with no training. I have noticed that switching back and forth takes practice. It would be niice to have a network analyzer and see it all at once but I didn't win the lottery.

Thank you!!!

Tomas Guerrero

# 2460. Re: [hp8924] Measuring insertion loss

Yahoo group: hp8924
Date: 2016-08-30 19:23:41 UTC
From: Robert Atkinson
Topic: 2454  Message: 2460

Hi,What switching back and forth? the 8924C should do most thinks with the press of a few buttons.
Robert G8RPI.

# 2461. Re: [hp8924] Measuring insertion loss

Yahoo group: hp8924
Date: 2016-08-30 20:03:09 UTC
From: Clif Holland
Topic: 2454  Message: 2461

I only span 100 kHz at a time for max accuracy. Have to move frequency to see the other side. Same for notch.

Clif Holland KA5IPF
www.avvid.com

> On Aug 30, 2016, at 2:23 PM, Robert Atkinson robert8rpi@... [hp8924] <hp8924@yahoogroups.com> wrote:
>
> Hi,
> What switching back and forth? the 8924C should do most thinks with the press of a few buttons.
>
> Robert G8RPI.
>
>

# 2462. Re: [hp8924] Measuring insertion loss

Yahoo group: hp8924
Date: 2016-08-30 20:36:18 UTC
From: Ralph Mowery
Topic: 2454  Message: 2462

It is easy.  Just go to the SA screen and set it for the frequency you want, set the bandwidth to a small value and go to the tracking generate screen and make sure the output is the same as the input of the SA.  You can go to the AUX screen and set it for either 1 or 2 db per devision to get a more accurate display.  While on that screen you can also take the 2 pieces of cable comming from either the output or the duplex output and antenna input and put a barrel connector between them.  Then tell it to store B and then use the B_A function .  This cancels out any loss in the cables.  Then remove the barrel and hook up the duplexer or cavity.
It does take a while to learn how to use the 8924c even if you are familiar with service monitors as it does so much.  There is very little documentation out on that unit that is not for cell phones.  However it is very similar to the 8920 and if you download those manuals and figuer out the differences in the buttons to press it will help a lot.There are many in the files section and you should be able to go to the HP/Agilent web page and find out lots about it.  They did change the name of the HP/Agilent to something else for the test instruments, so it may take a while to find that.  Sorry I don't have the the name handy.
The 6 dB loss is way too much.  Looking at the specs you should only loose about 1.5 but it will only give about 90 db of isolation at 600 kHz.  That may be why someone has it set for much more loss.  However I think 6 db of loss is way out of line.  Maybe 2 to 2.5 db of loss would be the maximum I would set it for if I needed more isolation.
How are you tuning the duplexer for the pass ?  The best way would be a RLB , but you may be able to tune it for the least loss, then tune it for the best rejection.  Most of the time you have to tune the pass first and then the reject.  If very far out of tune you may have to retune it a second time .

From: "tomasguerro@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Tuesday, August 30, 2016 1:04 PM
Subject: [hp8924] Measuring insertion loss

<!--#yiv8450740557 #yiv8450740557 .yiv8450740557ygrp-photo-title{clear:both;font-size:smaller;min-height:15px;overflow:hidden;text-align:center;width:75px;}#yiv8450740557 div.yiv8450740557ygrp-photo{background-position:center;background-repeat:no-repeat;background-color:white;border:1px solid black;min-height:62px;width:62px;}#yiv8450740557 div.yiv8450740557photo-title a, #yiv8450740557 div.yiv8450740557photo-title a:active, #yiv8450740557 div.yiv8450740557photo-title a:hover, #yiv8450740557 div.yiv8450740557photo-title a:visited {text-decoration:none;}#yiv8450740557 div.yiv8450740557attach-table div.yiv8450740557attach-row {clear:both;}#yiv8450740557 div.yiv8450740557attach-table div.yiv8450740557attach-row div {float:left;}#yiv8450740557 p {clear:both;padding:15px 0 3px 0;overflow:hidden;}#yiv8450740557 div.yiv8450740557ygrp-file {width:30px;}#yiv8450740557 div.yiv8450740557attach-table div.yiv8450740557attach-row div div a {text-decoration:none;}#yiv8450740557 div.yiv8450740557attach-table div.yiv8450740557attach-row div div span {font-weight:normal;}#yiv8450740557 div.yiv8450740557ygrp-file-title {font-weight:bold;}#yiv8450740557 --> <!--#yiv8450740557 #yiv8450740557ygrp-mkp

{border:1px solid #d8d8d8;font-family:Arial;margin:10px 0;padding:0 10px;}#yiv8450740557 #yiv8450740557ygrp-mkp hr {border:1px solid #d8d8d8;}#yiv8450740557 #yiv8450740557ygrp-mkp #yiv8450740557hd {color:#628c2a;font-size:85%;font-weight:700;line-height:122%;margin:10px 0;}#yiv8450740557 #yiv8450740557ygrp-mkp #yiv8450740557ads {margin-bottom:10px;}#yiv8450740557 #yiv8450740557ygrp-mkp .yiv8450740557ad {padding:0 0;}#yiv8450740557 #yiv8450740557ygrp-mkp .yiv8450740557ad p {margin:0;}#yiv8450740557 #yiv8450740557ygrp-mkp .yiv8450740557ad a {color:#0000ff;text-decoration:none;}-->

Our duplexer is a Sinclair Q2330e VHF. When we first got it we were told that by rotating the loops we could adjust the insertion loss for times when you might need some extra attenuation or just best performance. Others told us no way but Sinclair confirmed this. But they tune using a network analyzer that I don't own or even know how to use. Any way, we have 6db of insertion loss that shouldn't be more than 1.4. I'm still learning this service monitor. I was able to tune the pass and reject. Can someone suggest how to test the insertion loss? I was thinking (dangerous) that if I use the monitor to generate an on frequency signal and then loop back to the spectrum analyzer and watch the change of the spike. Yes? I am a rookie and don't know quite what to ask.

Thank you.

Tomas Guerrero

# 2463. RE: [hp8924] Measuring insertion loss

Yahoo group: hp8924
Date: 2016-08-30 20:39:42 UTC
From: Adam Farson
Topic: 2454  Message: 2463

The company name this week is Keysight.

http://www.keysight.com/

73, Adam VA7OJ/AB4OJ

# 2464. Re: [hp8924] Measuring insertion loss

Yahoo group: hp8924
Date: 2016-08-30 20:43:17 UTC
From: robert8rpi@...
Topic: 2454  Message: 2464

Hi Clif,
The question was for Tomas, but hopping frequencies is easy, just store the set-ups and they are just a couple of button pushes away.

Robert G8RPI.

# 2465. Re: [hp8924] Measuring insertion loss

Yahoo group: hp8924
Date: 2016-08-30 20:51:55 UTC
From: Ralph Mowery
Topic: 2454  Message: 2465

That is a good idea for him.  There are 2 quick ways I use.  One is just the Previous button to switch back and forth from one setup to the one before it.  The other is to store several most used setups in the memory.  Sure saves lots of time if doing something very often.
I also like the Power On function so the set will come up in my most used setup.

From: "robert8rpi@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Tuesday, August 30, 2016 4:43 PM
Subject: Re: [hp8924] Measuring insertion loss

<!--#yiv1416400513 #yiv1416400513 .yiv1416400513ygrp-photo-title{clear:both;font-size:smaller;min-height:15px;overflow:hidden;text-align:center;width:75px;}#yiv1416400513 div.yiv1416400513ygrp-photo{background-position:center;background-repeat:no-repeat;background-color:white;border:1px solid black;min-height:62px;width:62px;}#yiv1416400513 div.yiv1416400513photo-title a, #yiv1416400513 div.yiv1416400513photo-title a:active, #yiv1416400513 div.yiv1416400513photo-title a:hover, #yiv1416400513 div.yiv1416400513photo-title a:visited {text-decoration:none;}#yiv1416400513 div.yiv1416400513attach-table div.yiv1416400513attach-row {clear:both;}#yiv1416400513 div.yiv1416400513attach-table div.yiv1416400513attach-row div {float:left;}#yiv1416400513 p {clear:both;padding:15px 0 3px 0;overflow:hidden;}#yiv1416400513 div.yiv1416400513ygrp-file {width:30px;}#yiv1416400513 div.yiv1416400513attach-table div.yiv1416400513attach-row div div a {text-decoration:none;}#yiv1416400513 div.yiv1416400513attach-table div.yiv1416400513attach-row div div span {font-weight:normal;}#yiv1416400513 div.yiv1416400513ygrp-file-title {font-weight:bold;}#yiv1416400513 --> <!--#yiv1416400513 #yiv1416400513ygrp-mkp {border:1px solid #d8d8d8;font-family:Arial;margin:10px 0;padding:0 10px;}#yiv1416400513 #yiv1416400513ygrp-mkp hr {border:1px solid #d8d8d8;}#yiv1416400513 #yiv1416400513ygrp-mkp #yiv1416400513hd {color:#628c2a;font-size:85%;font-weight:700;line-height:122%;margin:10px 0;}#yiv1416400513 #yiv1416400513ygrp-mkp #yiv1416400513ads {margin-bottom:10px;}#yiv1416400513 #yiv1416400513ygrp-mkp .yiv1416400513ad {padding:0 0;}#yiv1416400513 #yiv1416400513ygrp-mkp .yiv1416400513ad p {margin:0;}#yiv1416400513 #yiv1416400513ygrp-mkp .yiv1416400513ad a {color:#0000ff;text-decoration:none;}-->

Hi Clif,
The question was for Tomas, but hopping frequencies is easy, just store the set-ups and they are just a couple of button pushes away.

Robert G8RPI.

# 2466. Re: [hp8924] Measuring insertion loss

Yahoo group: hp8924
Date: 2016-08-30 23:51:17 UTC
From: Clif Holland
Topic: 2454  Message: 2466

You can see it all at once if you expand the span but the accuracy suffers.

Clif Holland KA5IPF
www.avvid.com
214-850-0973

On 8/30/2016 1:31 PM, tomasguerro@... [hp8924] wrote:
>
> I'm liking it but it is new to me. I got handed the job with no
> training. I have noticed that switching back and forth takes practice.
> It would be niice to have a network analyzer and see it all at once
> but I didn't win the lottery.
>
> Thank you!!!
>
> Tomas Guerrero
>
>

# 2467. Re: [hp8924] Measuring insertion loss

Yahoo group: hp8924
Date: 2016-08-31 03:29:17 UTC
From: tomasguerro@...
Topic: 2454  Message: 2467

I had not thought of that. I have set POWERON already but I'll have to refresh my memory on saving memory settings so that I can switch back and forth. THANK YOU.

Tomas

# 2468. Re: Output power

Yahoo group: hp8924
Date: 2016-09-05 21:42:50 UTC
From: rbarrioss@...
Topic: 2341  Message: 2468

Hi,

I've just noticed this in my 8920A and I was lucky to find this thread. It was not a surprise since to put 0dBm out of the main RF IN/OUT the generator would need to output +14dBm to overcome the high power attenuator, which is always inline. I understand the inability to output all that power but the firmware could give a UNCAL warning easily since the presence of the attenuator is known to the instrument

Thanks Robert, again.

Best regards,
Roberto EB4EQA

# 2469. Re: [hp8924] Re: Output power

Yahoo group: hp8924
Date: 2016-09-05 22:45:03 UTC
From: Clif Holland
Topic: 2341  Message: 2469

Simple, when exceeding -8dBm mine tells you to go to the Duplex port and then goes on up to +16dBm, calibrated. You have to be careful though because the duplex port is not protected like the RF port.

Clif Holland KA5IPF
www.avvid.com
214-850-0973

On 9/5/2016 4:42 PM, rbarrioss@... [hp8924] wrote:
>
> Hi,
>
>
> I've just noticed this in my 8920A and I was lucky to find this
> thread. It was not a surprise since to put 0dBm out of the main RF
> IN/OUT the generator would need to output +14dBm to overcome the high
> power attenuator, which is always inline. I understand the inability
> to output all that power but the firmware could give a UNCAL warning
> easily since the presence of the attenuator is known to the instrument
>
>
> Thanks Robert, again.
>
>
> Best regards,
>
> Roberto EB4EQA
>
>

# 2470. Re: [hp8924] Re: Output power

Yahoo group: hp8924
Date: 2016-09-05 23:48:28 UTC
From: farson@...
Topic: 2341  Message: 2470

Just checked the output levels on my 8935. At the Duplex Out port, the maximum output is +10 dBm. The level does not change in the setting range +11...+18 dBm.

At the RF Out port, the maximum output is -25 dBm. If the level is turned up beyond -25 dBm, the following warning is displayed, but the measured power output still tracks the level setting up to -18 dBm.

"Change RF Gen Amplitude, Output Port or Atten Hold (if on)."

The same warning is displayed if the level is turned down below -18 dBm with the Duplex Out port selected, but the measured power output still tracks the level setting down to -20 dBm. Below -20 dBm the level setting is essentially uncalibrated.

(Levels measured with HP 432A and 437B power meters).

73, Adam VA7OJ/AB4OJ.

# 2471. Re: [hp8924] Re: Output power

Yahoo group: hp8924
Date: 2016-09-06 02:00:07 UTC
From: Clif Holland
Topic: 2341  Message: 2471

On my 8920A from the RF port it tracks to -8dBm, within +/-0.5dBm Then switching to the Duplex port it tracks to +17dBm again +/-0.5dBm. Measurements were done on my HP 8594E Spectrum aAalyzer because I was too lazy to dig out the HP 435B Power Meter. I had previously checked the output on the Power Meter but didn't remember the exact numbers. SA close enough for now.

Clif Holland KA5IPF
www.avvid.com
214-850-0973

On 9/5/2016 6:48 PM, farson@... [hp8924] wrote:
>
> Just checked the output levels on my 8935. At the Duplex Out port, the
> maximum output is +10 dBm. The level does not change in the setting
> range +11...+18 dBm.
>
> At the RF Out port, the maximum output is -25 dBm. If the level is
> turned up beyond -25 dBm, the following warning is displayed, but the
> measured power output still tracks the level setting up to -18 dBm.
>
> "Change RF Gen Amplitude, Output Port or Atten Hold (if on)."
>
> The same warning is displayed if the level is turned down below -18
> dBm with the Duplex Out port selected, but the measured power output
> still tracks the level setting down to -20 dBm. Below -20 dBm the
> level setting is essentially uncalibrated.
>
> (Levels measured with HP 432A and 437B power meters).
>
> 73, Adam VA7OJ/AB4OJ.
>
>

# 2472. Probe for evaluating freq response of filter

Yahoo group: hp8924
Date: 2016-09-06 18:16:38 UTC
From: wallydoc@...
Topic: 2472  Message: 2472

What probe would be good for evaluating LC filters using sweep?
Wally KC9INK

# 2473. Re: [hp8924] Probe for evaluating freq response of filter

Yahoo group: hp8924
Date: 2016-09-06 20:39:25 UTC
From: Ralph Mowery
Topic: 2472  Message: 2473

I would say it depends on the impedance of the filter.  If the in and out of the filter is 50 ohms, then just coax.  If some other value you would need to find something to match the impedance of the in and out of the filter.

From: "wallydoc@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Tuesday, September 6, 2016 2:16 PM
Subject: [hp8924] Probe for evaluating freq response of filter

<!--#yiv8593393576 #yiv8593393576 .yiv8593393576ygrp-photo-title{clear:both;font-size:smaller;min-height:15px;overflow:hidden;text-align:center;width:75px;}#yiv8593393576 div.yiv8593393576ygrp-photo{background-position:center;background-repeat:no-repeat;background-color:white;border:1px solid black;min-height:62px;width:62px;}#yiv8593393576 div.yiv8593393576photo-title a, #yiv8593393576 div.yiv8593393576photo-title a:active, #yiv8593393576 div.yiv8593393576photo-title a:hover, #yiv8593393576 div.yiv8593393576photo-title a:visited {text-decoration:none;}#yiv8593393576 div.yiv8593393576attach-table div.yiv8593393576attach-row {clear:both;}#yiv8593393576 div.yiv8593393576attach-table div.yiv8593393576attach-row div {float:left;}#yiv8593393576 p {clear:both;padding:15px 0 3px 0;overflow:hidden;}#yiv8593393576 div.yiv8593393576ygrp-file {width:30px;}#yiv8593393576 div.yiv8593393576attach-table div.yiv8593393576attach-row div div a {text-decoration:none;}#yiv8593393576 div.yiv8593393576attach-table div.yiv8593393576attach-row div div span {font-weight:normal;}#yiv8593393576 div.yiv8593393576ygrp-file-title {font-weight:bold;}#yiv8593393576 --> <!--#yiv8593393576 #yiv8593393576ygrp-mkp {border:1px solid #d8d8d8;font-family:Arial;margin:10px 0;padding:0 10px;}#yiv8593393576 #yiv8593393576ygrp-mkp hr {border:1px solid #d8d8d8;}#yiv8593393576 #yiv8593393576ygrp-mkp #yiv8593393576hd {color:#628c2a;font-size:85%;font-weight:700;line-height:122%;margin:10px 0;}#yiv8593393576 #yiv8593393576ygrp-mkp #yiv8593393576ads {margin-bottom:10px;}#yiv8593393576 #yiv8593393576ygrp-mkp .yiv8593393576ad {padding:0 0;}#yiv8593393576 #yiv8593393576ygrp-mkp .yiv8593393576ad p {margin:0;}#yiv8593393576 #yiv8593393576ygrp-mkp .yiv8593393576ad a {color:#0000ff;text-decoration:none;}-->

What probe would be good for evaluating LC filters using sweep?Wally KC9INK

–

# 2474. Wanted: Return loss bridge

Yahoo group: hp8924
Date: 2016-10-10 14:36:07 UTC
From: wallydoc@...
Topic: 2474  Message: 2474

Hello:
I have an Agilent 8935 series E6380 Test Set (CDMA Base station Test Set)
It seems to work well.
In order to use the RF tools.....
I think I need a return loss bridge, resistive splitter, open and short loads and 6 db attenuator x 2.
Maybe a few short coax leads with N connectors

I plan on using these in HF and possibly VHF to measure coax and antennae.
.

Any way, I think this is what I need to use the RF tools program in the unit. Am I correct?
Any suggestions?
Are the Minicircuit and Chinese return loss bridges any good?

Wally KC9INK

# 2475. RE: [hp8924] Wanted: Return loss bridge

Yahoo group: hp8924
Date: 2016-10-10 14:41:39 UTC
From: Mike Besemer
Topic: 2474  Message: 2475

RF tools is not necessary. I have it, but never use it.

I recommend the Amtronix RLB. http://www.amtronix.com/rlb.htm

Mike

WM4B

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com]
Sent: Monday, October 10, 2016 10:36 AM
To: hp8924@yahoogroups.com
Subject: [hp8924] Wanted: Return loss bridge

Hello:

I have an Agilent 8935 series E6380 Test Set (CDMA Base station Test Set)

It seems to work well.

In order to use the RF tools.....

I think I need a return loss bridge, resistive splitter, open and short loads and 6 db attenuator x 2.

Maybe a few short coax leads with N connectors

I plan on using these in HF and possibly VHF to measure coax and antennae.

.

Any way, I think this is what I need to use the RF tools program in the unit. Am I correct?

Any suggestions?

Are the Minicircuit and Chinese return loss bridges any good?

Wally KC9INK

# 2476. Re: [hp8924] Wanted: Return loss bridge

Yahoo group: hp8924
Date: 2016-10-10 14:51:33 UTC
From: Ralph Mowery
Topic: 2474  Message: 2476

I don't know about the ones from China.  I am using a Minicircuits ZFDC 20-5.  For general test work it is fine.  Might not hold up to the lab standards as the more expensive ones, but for tuning  duplexers and other service type work it compares well to the RLBs that cost several times as much.  You probably do not need the shorted and open loads unless doing lab work.  Just leave the port open when calibrating.  I don't see enough difference when using the attenuators or not for general work on my 8924C so seldom use them.
YOu need the RLB  for most of the work with the RFtools, and the resistive splitter for some of it.I think the resistive splitter is mainly used to find bad places in a length of coax.

From: "wallydoc@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Monday, October 10, 2016 10:36 AM
Subject: [hp8924] Wanted: Return loss bridge

<!--#yiv1840198145 #yiv1840198145 .yiv1840198145ygrp-photo-title{clear:both;font-size:smaller;height:15px;overflow:hidden;text-align:center;width:75px;}#yiv1840198145 div.yiv1840198145ygrp-photo{background-position:center;background-repeat:no-repeat;background-color:white;border:1px solid black;height:62px;width:62px;}#yiv1840198145 div.yiv1840198145photo-title a, #yiv1840198145 div.yiv1840198145photo-title a:active, #yiv1840198145 div.yiv1840198145photo-title a:hover, #yiv1840198145 div.yiv1840198145photo-title a:visited {text-decoration:none;}#yiv1840198145 div.yiv1840198145attach-table div.yiv1840198145attach-row {clear:both;}#yiv1840198145 div.yiv1840198145attach-table div.yiv1840198145attach-row div {float:left;}#yiv1840198145 p {clear:both;padding:15px 0 3px 0;overflow:hidden;}#yiv1840198145 div.yiv1840198145ygrp-file {width:30px;}#yiv1840198145 div.yiv1840198145attach-table div.yiv1840198145attach-row div div a {text-decoration:none;}#yiv1840198145 div.yiv1840198145attach-table div.yiv1840198145attach-row div div span {font-weight:normal;}#yiv1840198145 div.yiv1840198145ygrp-file-title {font-weight:bold;}#yiv1840198145 --> <!--#yiv1840198145 #yiv1840198145ygrp-mkp {border:1px solid #d8d8d8;font-family:Arial;margin:10px 0;padding:0 10px;}#yiv1840198145 #yiv1840198145ygrp-mkp hr {border:1px solid #d8d8d8;}#yiv1840198145 #yiv1840198145ygrp-mkp #yiv1840198145hd {color:#628c2a;font-size:85%;font-weight:700;line-height:122%;margin:10px 0;}#yiv1840198145 #yiv1840198145ygrp-mkp #yiv1840198145ads {margin-bottom:10px;}#yiv1840198145 #yiv1840198145ygrp-mkp .yiv1840198145ad {padding:0 0;}#yiv1840198145 #yiv1840198145ygrp-mkp .yiv1840198145ad p {margin:0;}#yiv1840198145 #yiv1840198145ygrp-mkp .yiv1840198145ad a {color:#0000ff;text-decoration:none;}-->

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Any way, I think this is what I need to use the RF tools program in the unit. Am I correct?Any suggestions?Are the Minicircuit and Chinese return loss bridges any good?
Wally KC9INK

# 2477. Re: [hp8924] Wanted: Return loss bridge

Yahoo group: hp8924
Date: 2016-10-10 19:05:50 UTC
From: robert8rpi@...
Topic: 2474  Message: 2477

You don't need RF tools for basic work, just the RLB. Infact the basic spectrum analyser / tracking generator set-up id better for adjutments as it responds in real time. What RF tools gives you in this area is automatic compensation for cables and RLB allowing precise measurements.
For low frequency wourk you can use a hybrid divder inplace of the RLB. If you get a 1-4 one (basically 3 1-2 ones cascaded), terminate the two middle outputs and use the remaining ones you will get better directivity. You can also make your own RLBs. If you are happy with one for HF and anothr for VHF they are easy to make, Trying to cover 100kHz to 18GHz in one unit is harder :-) do a google search

Robert G8RPI.

# 2478. RE: [hp8924] Wanted: Return loss bridge

Yahoo group: hp8924
Date: 2016-10-11 02:13:07 UTC
From: Adam Farson
Topic: 2474  Message: 2478

Hi Wally,

You can use Mini-Circuits components with confidence. I use a ZFRSC-2050-N+ resistive splitter and a ZFDC-20-5-N+ directional coupler (both with N fittings). The coupler makes a decent return loss bridge.

Amtronix offers a good return loss bridge:

http://www.amtronix.com/rlb.htm

As for the Chinese stuff…not familiar with it.

73, Adam VA7OJ/AB4OJ

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com]
Sent: Monday, October 10, 2016 07:36
To: hp8924@yahoogroups.com
Subject: [hp8924] Wanted: Return loss bridge

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Any way, I think this is what I need to use the RF tools program in the unit. Am I correct?

Any suggestions?

Are the Minicircuit and Chinese return loss bridges any good?

Wally KC9INK

# 2479. Re: [hp8924] Wanted: Return loss bridge

Yahoo group: hp8924
Date: 2016-10-11 04:37:54 UTC
From: Sam Skolfield
Topic: 2474  Message: 2479

I know some people who use the Masters Communications RLB, and they love it.

http://www.masterscommunications.com/products/rlb/rlb1500.html

On Mon, Oct 10, 2016 at 7:13 PM, 'Adam Farson' farson@... [hp8924] <hp8924@yahoogroups.com> wrote:

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> Hi Wally,
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> *Sent:* Monday, October 10, 2016 07:36
> *To:* hp8924@yahoogroups.com
> *Subject:* [hp8924] Wanted: Return loss bridge

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> Wally KC9INK
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KJ6QFS
Sam Skolfield

# 2480. RE: [hp8924] Wanted: Return loss bridge

Yahoo group: hp8924
Date: 2016-10-11 04:46:49 UTC
From: Adam Farson
Topic: 2474  Message: 2480
Attachments: 2 described; binary payloads are missing from this source WARC

Right, this is the one offered by Amtronix. It is excellent.

73, Adam VA7OJ/AB4OJ

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com]
Sent: Monday, October 10, 2016 21:38
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Wanted: Return loss bridge

I know some people who use the Masters Communications RLB, and they love it.

http://www.masterscommunications.com/products/rlb/rlb1500.html

On Mon, Oct 10, 2016 at 7:13 PM, 'Adam Farson' farson@... [hp8924] <hp8924@yahoogroups.com> wrote:

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Are the Minicircuit and Chinese return loss bridges any good?

Wally KC9INK

--

KJ6QFS
Sam Skolfield

# 2481. Generating a RF tone at x dB or level

Yahoo group: hp8924
Date: 2016-10-18 14:05:06 UTC
From: tomasguerro@...
Topic: 2481  Message: 2481

I have numerous Vertex radios that I've tuned with an IFR. Easy. Generate a signal a believe at -20. But now I have a 8924 and a Motorola MTS2000 and a XTS 3000 that are not quite on it compared to a Yaesu HT. The display on the 8924 looks different. Can someone refer me to the manual page on the 8920 (or 8924c) that will, help me? Am I adjusting the REF LVL of the 8924? -20dBm seems awfully hot to be tuning the RX on any radio. I have never used the Astro Spectra or Astro 25 Tuner software but have both. I own a couple of Astro Spectra P25 VHF that need to be recapped and tuned. I love ( ◔_◔ ) learning new software challenged by a different service monitor. I'll admit that I am not a heavy weight on the 8924. Still plugging along learning as I need. I don't mind Googling but to do that you often need to know the phrase needed to find what you want.

# 2482. Re: [hp8924] Generating a RF tone at x dB or level

Yahoo group: hp8924
Date: 2016-10-18 15:35:48 UTC
From: Ralph Mowery
Topic: 2481  Message: 2482

Are you confusing the Japanese way of measuring the signals ?  Seems that they use a method where their 20 db is really around 5 uV in the way most of the US signal generators are set up for.  I would think the receivers would be set up for more like -100 dbm or less.
The 8924c has a place in the configuration menu to set it for an open circuit or 50 ohm output.  Most likely you should set it for the 50 ohm setting.  There will be a 6 db of error if set to the wrong one.
By pressing the RX test button on the front of the 892 you should get up a screen where on the left side you can set the output.  It may be in any of several forms.  Then go to the keyboard and look for the form you want , dbm , uv mv or whatever.
Page 83 of the 8920a,b Applications manual will show the screen.
As you should know, the 8924c manual is just about worthless for anything but the cell phones and you need to look at the 8920 manuals and try to convert what they say over to the way the 8924 is laid out.

From: "tomasguerro@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Tuesday, October 18, 2016 10:05 AM
Subject: [hp8924] Generating a RF tone at x dB or level

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#yiv9275222049ygrp-mkp hr {border:1px solid #d8d8d8;}#yiv9275222049 #yiv9275222049ygrp-mkp
#yiv9275222049hd {color:#628c2a;font-size:85%;font-weight:700;line-height:122%;margin:10px
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{margin-bottom:10px;}#yiv9275222049 #yiv9275222049ygrp-mkp .yiv9275222049ad {padding:0
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# 2483. Re: [hp8924] Generating a RF tone at x dB or level

Yahoo group: hp8924
Date: 2016-10-18 21:03:23 UTC
From: tomasguerro@...
Topic: 2481  Message: 2483

You're right - the Japanese instructions call to inject a 20dB signal and i agree that it should be closer to -107dBmn, which I've learned is the reference for many tests on performance. I don't know if the 8924c is set for 50 ohms although I set POWERON. I assumed. Our duplexer is showing a loss through it of 6dB and now I wonder if it is actually tuned correctly after all. It does seem that I want to generate a weak signal for doing electronic tuning. I've never used Astro Tuner and don't want to screw things up. I can't find an online document on using it. Gotta love On the job training :-) I don't use the 8924c manual :-0

# 2484. Re: [hp8924] Generating a RF tone at x dB or level

Yahoo group: hp8924
Date: 2016-10-18 22:22:58 UTC
From: Ralph Mowery
Topic: 2481  Message: 2484

To check the 50 ohm setting:
Press blue SHIFT keyPress Test (above it will be a blue Config)
On the lower left of the CRT will be a RFGen Volts.  For a 50 ohm output impedance  put the underline under 50 ohm.  For an open circuit voltage situation set it to the other.
 This usually changes the calibration by 6 db (I think).  Never used it that way.
More to the right of the CRT is RF Level offset.  Set it to 0.0 dbThe ones below it should also be set to 0 db.  That is unless you know of some other reason.  One is that if someone changes an internal dummy load attenuator without updating the calibration software, or you always use an external atteunator and are compensating for it.
The output and input port can be set for whatever you want.
You may have seen the amtronix.com website.  They have some screen shots on it.  Also the e8285 is very similar to them as well.
http://www.amtronix.com/hp8924c60.htm

Those monitors do so much it can take months to learn how to get the most out of them.
The 6 db does seem like a lot for a duplexer to have.  I have a 6 cavity ( s on each side) duplexer that at a 600 khz split on 144 mhz looses about 3 db, but it is suppose to because it has the high selectivity option on it.
I don't know anything about an Astro Tuner either.

From: "tomasguerro@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Tuesday, October 18, 2016 5:03 PM
Subject: Re: [hp8924] Generating a RF tone at x dB or level

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font-size:smaller;height:15px;overflow:hidden;text-align:center;width:75px;}#yiv0130979286
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# 2485. Re: [hp8924] Generating a RF tone at x dB or level

Yahoo group: hp8924
Date: 2016-10-19 04:30:46 UTC
From: tomasguerro@...
Topic: 2481  Message: 2485

Thank you Ralph. We bought the SM from Amtronix and have all of his documents. I've learned that there are several ways to do the same thing. I'll check the 50 ohm / 0.0dB. I assumed that it was set. Our duplexer has adjustable insertion loss and we assumed that someone rotated the loops. I don't own a network analyzer that shows the notch/pass/insertion loss all at one time. So... I have to do it the old fashioned way -- take it too a local two-way shop! All I work on at this point are 50 ohm radios, so that's what I'll set I/O for. I've searched all day for the Astro 25 manual with out success. I'll have to use the help screens. I expect that it will tell me to inject a tone at N level and then click READ. It will change the RSSI. Just like Vertex.

Thank you!!!!!

# 2486. Re: [hp8924] Generating a RF tone at x dB or level

Yahoo group: hp8924
Date: 2016-10-19 08:16:32 UTC
From: Ralph Mowery
Topic: 2481  Message: 2486
Attachments: 1 described; binary payloads are missing from this source WARC

If you are planning on taking the duplexer to the two way shop, you should give it a try at tuning it with the 8924.  Duplexers have been tuned without the NAs for years.  I have tuned and played with the loops on several of them and the duplexers seem to work fine.  I am sure lots on here have also.

What kind of duplexer do you have ?
You should be able to check each cavity to see how much loss you have in each one.  There are some videos on youtube that show how to tune the duplexers.  I think many of them use the e8285 which is very similar to the 8924.
If yo do not have a return loss bridge, you should get one.  There is one made by Minicircuits that works very well for under $ 100.  I bought 2 off ebay a while back.  Gave one to a friend that need one.  Attached is the info on it.
Here is one of the youtube videos.
https://www.youtube.com/watch?v=P1wsG3FIU8w&list=PLrfjXUrzAR4x5VabvcyyetidoKZkijXz2

73

From: "tomasguerro@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924
@yahoogroups.com
Sent: Wednesday, October 19, 2016 12:30 AM
Subject: Re: [hp8924] Generating a RF tone at x dB or level

#yiv8170596641 #yiv8170596641 -- #yiv8170596641 .yiv8170596641ygrp-photo-title{clear:both;
font-size:smaller;height:15px;overflow:hidden;text-align:center;width:75px;}#yiv8170596641
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div.yiv8170596641ygrp-file {width:30px;}#yiv8170596641 div.yiv8170596641attach-table
div.yiv8170596641attach-row div div a {text-decoration:none;}#yiv8170596641
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{font-weight:normal;}#yiv8170596641 div.yiv8170596641ygrp-file-title
{font-weight:bold;}#yiv8170596641 #yiv8170596641 #yiv8170596641 #yiv8170596641
--#yiv8170596641ygrp-mkp {border:1px solid #d8d8d8;font-family:Arial;margin:10px
0;padding:0 10px;}#yiv8170596641 #yiv8170596641ygrp-mkp hr {border:1px solid
#d8d8d8;}#yiv8170596641 #yiv8170596641ygrp-mkp #yiv8170596641hd
{color:#628c2a;font-size:85%;font-weight:700;line-height:122%;margin:10px
0;}#yiv8170596641 #yiv8170596641ygrp-mkp #yiv8170596641ads
{margin-bottom:10px;}#yiv8170596641 #yiv8170596641ygrp-mkp .yiv8170596641ad {padding:0
0;}#yiv8170596641 #yiv8170596641ygrp-mkp .yiv8170596641ad p {margin:0;}#yiv8170596641

#yiv8170596641ygrp-mkp .yiv8170596641ad a {color:#0000ff;text-decoration:none;}#yiv8170596641

Thank you Ralph. We bought the SM from Amtronix and have all of his documents. I've learned that there are several ways to do the same thing. I'll check the 50 ohm / 0.0dB. I assumed that it was set. Our duplexer has adjustable insertion loss and we assumed that someone rotated the loops. I don't own a network analyzer that shows the notch/pass/insertion loss all at one time. So... I have to do it the old fashioned way -- take it too a local two-way shop! All I work on at this point are 50 ohm radios, so that's what I'll set I/O for. I've searched all day for the Astro 25 manual with out success. I'll have to use the help screens. I expect that it will tell me to inject a tone at N level and then click READ. It will change the RSSI. Just like Vertex.

Thank you!!!!!

# 2487. Re: [hp8924] Generating a RF tone at x dB or level

Yahoo group: hp8924
Date: 2016-10-19 11:41:28 UTC
From: Robert Atkinson
Topic: 2481  Message: 2487

Hi,Note that the RF Gen Volts setting does not actually change the output impedance, just the indicated level versus the terminal voltage. Its related to the old "Hard" and "soft" volts. Old signal generators used to have a low impedance output set to a level with a voltmeter (no levelling) and then used a series 50 Ohm resistor. If you terminate this with another 50 Ohm load (Rx input) the voltage at the load dropped by half (power by 6db as stated by Ralph) These were "soft" volts. Later generators had proper levelled 50 Ohm outputs and the out voltage remained the same terminated or otherwise - "Hard" volts. back in the day you had to know if the test spec was for "hard" or "soft" and adjust accordingly. Most people use dBm these days so it's not a common problem.
Robert G8RPI.

From: "Ralph Mowery ku4pt@... [hp8924]" <hp8924@yahoogroups.com>
To: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
Sent: Tuesday, 18 October 2016, 23:22
Subject: Re: [hp8924] Generating a RF tone at x dB or level

To check the 50 ohm setting:
Press blue SHIFT keyPress Test (above it will be a blue Config)
On the lower left of the CRT will be a RFGen Volts. For a 50 ohm output impedance put the underline under 50 ohm. For an open circuit voltage situation set it to the other. This usually changes the calibration by 6 db (I think). Never used it that way.
More to the right of the CRT is RF Level offset. Set it to 0.0 dbThe ones below it should also be set to 0 db. That is unless you know of some other reason. One is that if someone changes an internal dummy load attenuator without updating the calibration software, or you always use an external atteunator and are compensating for it.
The output and input port can be set for whatever you want.
You may have seen the amtronix.com website. They have some screen shots on it. Also the e8285 is very similar to them as well.
http://www.amtronix.com/hp8924c60.htm

Those monitors do so much it can take months to learn how to get the most out of them.
The 6 db does seem like a lot for a duplexer to have. I have a 6 cavity ( s on each side) duplexer that at a 600 khz split on 144 mhz looses about 3 db, but it is suppose to because it has the high selectivity option on it.
I don't know anything about an Astro Tuner either.

From: "tomasguerro@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Tuesday, October 18, 2016 5:03 PM
Subject: Re: [hp8924] Generating a RF tone at x dB or level

You're right - the Japanese instructions call to inject a 20dB signal and i agree that it should be closer to -107dBmn, which I've learned is the reference for many tests on performance. I don't know if the 8924c is set for 50 ohms although I set POWERON. I assumed. Our duplexer is showing a loss through it of 6dB and now I wonder if it is actually tuned correctly after all. It does seem that I want to generate a weak signal for

doing electronic tuning. I've never used Astro Tuner and don't want to screw things up. I can't find an online document on using it. Gotta love On the job training :-) I don't use the 8924c manual :-0

# 2488. Re: [hp8924] Generating a RF tone at x dB or level

Yahoo group: hp8924
Date: 2016-10-19 11:45:32 UTC
From: tomasguerro@...
Topic: 2481  Message: 2488

We do have the RLB - got it when we got the 8924c but haven't needed it yet. I have the special tuning instructions for the Res-Loc Q series.

I know that the duplexer can be tuned with a tracking generator and of course we have that with a 100 watt load limit. But the Sinclair Res-Loc Q2330e is considered a premier duplexer and a SOB to tune without a NA. I'm willing to try but I'm still new at just a BrBp.

To do it with the 8924 I'm told that I have to neutralize the cables so that they don't act as part of the circuit. Or is it Normalize? You get me. Then tune the pass with the INVAR rod and the notch with the capacitor. The insertion loss is tuned by rotating the loops one by one. Should be no more than a I/L of 1.4dB. I live out in the middle of nowhere and don't have hands on help teaching me.

https://youtu.be/U7QZzzB2LZU https://youtu.be/U7QZzzB2LZU

As an alternative I have WaCom WP-642 6-pack 4"-8" cans. Both are rated at 350 watts ffor specifications.

---In hp8924@yahoogroups.com, <ku4pt@...> wrote :

If you are planning on taking the duplexer to the two way shop, you should give it a try at tuning it with the 8924. Duplexers have been tuned without the NAs for years. I have tuned and played with the loops on several of them and the duplexers seem to work fine. I am sure lots on here have also.

What kind of duplexer do you have ?

You should be able to check each cavity to see how much loss you have in each one. There are some videos on youtube that show how to tune the duplexers. I think many of them use the e8285 which is very similar to the 8924.

If yo do not have a return loss bridge, you should get one. There is one made by Minicircuits that works very well for under $ 100. I bought 2 off ebay a while back. Gave one to a friend that need one. Attached is the info on it.

Here is one of the youtube videos.

https://www.youtube.com/watch?v=P1wsG3FIU8w&list=PLrfjXUrzAR4x5VabvcyyetidoKZkijXz2
https://www.youtube.com/watch?v=P1wsG3FIU8w&list=PLrfjXUrzAR4x5VabvcyyetidoKZkijXz2

73

From: "tomasguerro@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924

@yahoogroups.com
Sent: Wednesday, October 19, 2016 12:30 AM

Subject: Re: [hp8924] Generating a RF tone at x dB or level

Thank you Ralph. We bought the SM from Amtronix and have all of his documents. I've learned that there are several ways to do the same thing. I'll check the 50 ohm / 0.0dB. I assumed that it was set. Our duplexer has adjustable insertion loss and we assumed that someone rotated the loops. I don't own a network analyzer that shows the notch/pass/insertion loss all at one time. So... I have to do it the old fashioned way -- take it too a local two-way shop! All I work on at this point are 50 ohm radios, so that's what I'll set I/O for. I've searched all day for the Astro 25 manual with out success. I'll have to use the help screens. I expect that it will tell me to inject a tone at N level and then click READ. It will change the RSSI. Just like Vertex.

Thank you!!!!!

# 2489. Re: [hp8924] Generating a RF tone at x dB or level

Yahoo group: hp8924
Date: 2016-10-19 11:53:35 UTC
From: Robert Atkinson
Topic: 2481  Message: 2489

Hi,The 8924 in TG / SA mode IS a network analyser :-) It does not give phase information (its a scalar NA not a vector) but you don't need that for tuning a diplexer or amplifier. You do not need to normalise the system to make adjustments. You only normalise for accurate measurements. The RF tools software allows normalisation but it only does a single sweep so no use for adjusting. You set the frequency without the RLB and then use the RLB for input and output match adjustment if required.
Robert G8RPI.

From: "tomasguerro@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Wednesday, 19 October 2016, 12:45
Subject: Re: [hp8924] Generating a RF tone at x dB or level

We do have the RLB - got it when we got the 8924c but haven't needed it yet. I have the special tuning instructions for the Res-Loc Q series.

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Here is one of the youtube videos.

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To: hp8924
@yahoogroups.com
Sent: Wednesday, October 19, 2016 12:30 AM
Subject: Re: [hp8924] Generating a RF tone at x dB or level

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Thank you!!!!!

# 2490. Re: [hp8924] Generating a RF tone at x dB or level

Yahoo group: hp8924
Date: 2016-10-18 22:33:38 UTC
From: Clif Holland
Topic: 2481 Message: 2490

The Japanese DB at 0 dB is equivalent to .5uv into a 50 ohm load or
-113dBm.

+60dB is 500uV and -53 dBm.

6dB difference is correct between open and 50 ohm impedance.
The plus 20 they referenced is actually 5 uV. A good alignment voltage
for FM work.

Clif Holland KA5IPF
www.avvid.com
214-850-0973

On 10/18/2016 5:22 PM, Ralph Mowery ku4pt@... [hp8924] wrote:
> To check the 50 ohm setting:
>
> Press blue SHIFT key
> Press Test (above it will be a blue Config)
>
> On the lower left of the CRT will be a RFGen Volts. For a 50 ohm
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> The ones below it should also be set to 0 db. That is unless you know
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> you always use an external atteunator and are compensating for it.
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> The output and input port can be set for whatever you want.
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> You may have seen the amtronix.com website. They have some screen
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>

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>
>
>
>
> ---
> *From:* "tomasguerro@... [hp8924]" <hp8924@yahoogroups.com>
> *To:* hp8924@yahoogroups.com
> *Sent:* Tuesday, October 18, 2016 5:03 PM
> *Subject:* Re: [hp8924] Generating a RF tone at x dB or level
>
>
>
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> document on using it. Gotta love On the job training :-) I don't use
> the 8924c manual :-0
>
>

# 2491. Re: Generating a RF tone at x dB or level

Yahoo group: hp8924
Date: 2016-10-19 17:00:23 UTC
From: rhyolite
Topic: 2481  Message: 2491

Some older receivers, like Motorola Micor and MX300, had tuneable helical filters in the front end. If you were retuning these radios "from scratch", you needed a significantly stronger signal to get through the untuned filter. Once you began tuning, you would reduce the signal in steps so that the peak response of the tuning coils was evident.

Sent from Samsung tablet

# 2492. Re: [hp8924] Generating a RF tone at x dB or level

Yahoo group: hp8924
Date: 2016-10-22 12:24:13 UTC
From: tomasguerro@...
Topic: 2481  Message: 2492

OKAY. I think I am taking us into the weeds and overly complicating this. I am new to repeaters. I can setup a Motorola MSF 5000, a TKR-750, a RC-210 and even a GR500 (LOL). BUT -- I cannot tune the damn duplexer. I don't know how to tune the insertion loss for the lowest. We are using a Sinclair Q2330e Res-Loc rectangular duplexer rated at 1.4dB maximum insertion loss (I/L). We have a 6dB I/L. I have spoken directly with Sinclair's lead support representative and told how to tune the device using a NA. We have a HP 8924c and don't know how to use it as a NA. The video attached shows Sinclair easily tuning the BrBp and the I/L all at one time using a NA. Soooo easy! How do I setup a 8924c a a NA? Sinclair tells me not to use a RLB, which I own from Amtronix. I have used it to tune a single cavity.

Incidentally, they want $200 US to "inspect the unit", and then parts and labor that is unstated. PLUS shipping in both directions. That is just ridiculous.

https://youtu.be/U7QZzzB2LZU https://youtu.be/U7QZzzB2LZU

Should I just switch to our WaCom WP-642? It is 6 cavities that are 4" radius and terminate in UHF connectors which I am not fond of. I prefer N. One tunes the pass with the INVAR rods and the 642 has trombone like tubes on the sides that tune the reject. No mention of tuning insertion loss but the loops do seem tuneable as well. That's what this is all about.

Sorry. I am so frustrated at this point because my elmer moved away and no one has stepped forward to help. I live in the middle of nowhere and I'd even drive to them. But...

# 2493. Re: [hp8924] Generating a RF tone at x dB or level

Yahoo group: hp8924
Date: 2016-10-22 13:33:02 UTC
From: Ralph Mowery
Topic: 2481  Message: 2493

Tom I think you are making it more than it really is to tune the duplexers.  As you are new to this, it seems complicated, but not really.  Take the Wacom and play with it some to get the hang of things.  The Wacom is not adjustable for the loss by the end user without great difficulty.  The loops do not rotate.
Start with each individual cavity and adjust them.  Do the pass (return loss) adjustment first and finish with the notch.
Look at what I put together a while back to show someone else about setting the Wacom and 8924 up.
Look at the number on the videos so you do not get them out of sequence.https://drive.google.com/drive/folders/0B7wJcih38lRAWHJDa3U5MklBRFU

Let me know if this helps.
As I mentioned if you want to talk about this, I can meet you on any of the low bands.
73

From: "tomasguerro@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Saturday, October 22, 2016 8:24 AM
Subject: Re: [hp8924] Generating a RF tone at x dB or level

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Posted by: tomasguerro@...

# 2494. E8285A replacement options for HF work only?

Yahoo group: hp8924
Date: 2016-10-26 20:24:46 UTC
From: Frank Hughes
Topic: 2494 Message: 2494

Hi,The HP E8285A I bought from Amtronix many years ago is no longer working.Fans come on but display remains dark. Might have paid $600 for it, no complaints,amazed the ancient thing lasted this long.
Are any of the boards and/or display compatible with the more recent Agilent E8285A?
Last year an Agilent E8285A w/ OPT 102 came up for sale locally, $400, appeared as if it was never installed.Obtained all the SW & HW from Chris Day, ZL1CVD, to modify the unit to operate at HF, great!
So before I put the old HP E8285A in the cage with the dead parrot, thought I would see if any parts can be salvaged.
I know the Agilent unit won't last long either, already had to replace the AC input filter (stinky!!!).
Thus, would appreciate any suggestions for another SA w/TG for HF work only.73FrankKJ4OLL

# 2495. Re: E8285A replacement options for HF work only?

Yahoo group: hp8924
Date: 2016-10-26 21:03:17 UTC
From: Robert Atkinson
Topic: 2494  Message: 2495

Hi Frank,The HP and Agilent units are the same apart from the badges.For an HF SA with TG I use a Marconi TF 2730.
Robert G8RPI.

# 2496. Re: [hp8924] E8285A replacement options for HF work only?

Yahoo group: hp8924
Date: 2016-10-26 22:04:10 UTC
From: Ralph Mowery
Topic: 2494  Message: 2496

As Robert said the two units are the same.  YOu could probably swap modules and see which one is giving the problem.
YOu did not state the price range you were looking to be in.
  I know a fellow that may still have an IFR 1200s with the tracking generator for about $ 2200 shipped , but it is still going to be in the same age bracket as the unit you  have.

From: "Frank Hughes hp_ciscovss@... [hp8924]" <hp8924@yahoogroups.com>
To: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
Sent: Wednesday, October 26, 2016 4:24 PM
Subject: [hp8924] E8285A replacement options for HF work only?

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# 2497. Re: [hp8924] E8285A replacement options for HF work only?

Yahoo group: hp8924
Date: 2016-10-26 22:14:37 UTC
From: Brian Swann
Topic: 2494  Message: 2497

Hi Frank,

The RIGOL DSA815-TG is a very good SA/TG for the price.

Brian
n1bs

On Wed, Oct 26, 2016 at 4:24 PM, Frank Hughes hp_ciscovss@...
[hp8924] <hp8924@yahoogroups.com> wrote:

>
>
> Hi,
> The HP E8285A I bought from Amtronix many years ago is no longer working.
> Fans come on but display remains dark. Might have paid $600 for it, no
> complaints,
> amazed the ancient thing lasted this long.
>
> Are any of the boards and/or display compatible with the more recent
> Agilent E8285A?
>
> Last year an Agilent E8285A w/ OPT 102 came up for sale locally, $400,
> appeared as if it was never installed.
> Obtained all the SW & HW from Chris Day, ZL1CVD, to modify the unit to
> operate at HF, great!
>
> So before I put the old HP E8285A in the cage with the dead parrot,
> thought I would see if any parts can be salvaged.
>
> I know the Agilent unit won't last long either, already had to replace the
> AC input filter (stinky!!!).
>
> Thus, would appreciate any suggestions for another SA w/TG for HF work
> only.
> 73
> Frank
> KJ4OLL
>
>
>

# 2498. Re: [hp8924] E8285A replacement options for HF work only?

Yahoo group: hp8924
Date: 2016-10-27 01:25:24 UTC
From: Yuri Ostry
Topic: 2494  Message: 2498

Re: [hp8924] E8285A replacement options for HF work only? Hello, Brian.

Thursday, October 27, 2016, 1:14:37, Brian Swann n1bs wrote:

?
Hi Frank,

The RIGOL DSA815-TG is a very good SA/TG for the price.

Brian
n1bs

Yes, Rigol is really good, but does not replace full-featured test set. Have both DSA815TG and HP8920A in my workshop, and both used on a a regular basis.

Even SA/TG in Agilent service monitor used time to time, because Rigol cannot sweep with offset.

--
Best regards,
Yuri ? ? ? ? ? ? ? ? ? ? ? ? ?mailto:yuri@...

# 2499. Re: [hp8924] E8285A replacement options for HF work only?

Yahoo group: hp8924
Date: 2016-10-27 03:11:38 UTC
From: Brian Swann
Topic: 2494  Message: 2499

Hi Yuri,

On Wed, Oct 26, 2016 at 9:25 PM, Yuri Ostry yuri@... [hp8924] <
hp8924@yahoogroups.com> wrote:
>
>
>
> Yes, Rigol is really good, but does not replace full-featured test set.
> Have both DSA815TG and HP8920A in my workshop, and both used on a a regular
> basis.
>
> Yes, I have both the DSA815-TG and HP8285E, and have need for both. I
understood the OP to ask about a replacement SA/TG, obviously if he needs
the other modulation and signal generator functions, the DSA815-TG will not
suffice.

Even SA/TG in Agilent service monitor used time to time, because Rigol
> cannot sweep with offset.
>
> Yuri, can you describe this more, what is the offset you need, and how is
it used?

Thanks
Brian
n1bs

> --
>

# 2500. Re: [hp8924] E8285A replacement options for HF work only?

Yahoo group: hp8924
Date: 2016-10-27 05:18:59 UTC
From: Yuri Ostry
Topic: 2494  Message: 2500

Re: [hp8924] E8285A replacement options for HF work only? Hello, Brian.

Thursday, October 27, 2016, 6:11:38, Brian Swann n1bs wrote:

Yuri, can you describe this more, what is the offset you need, and how is it used?

I meant TG operation at a specified offset from current SA freq. For example, SA displaying 144-146 MHz and TG sweeping synchronously in 14-16 MHz range (130 MHz below SA).

Last time it was final tuning of TX part of Javornik II 144/14 MHz transverter with all lids closed in attempt to get as flat as possible TX power in whole band, from EME subband at the bottom to satellite portion near the top. 8-)

--
Best regards,
Yuri ? ? ? ? ? ? ? ?; ? ? ? ? ?mailto:yuri@...

# 2501. Re: E8285A replacement options for HF work only?

Yahoo group: hp8924
Date: 2016-10-27 16:35:52 UTC
From: Joe Leikhim
Topic: 2494  Message: 2501

Can you tell me about the AC Input filter, part number etc. I have an HP8920B and it was like new when I bought it some 12 years ago. Seldom used, usually unplugged, but whenever first turned on it has that smell. Is it a capacitor failing? Epoxy uncured? What is it exactly and will it damage anything?

"So before I put the old HP E8285A in the cage with the dead parrot, thought I would see if any parts can be salvaged.
I know the Agilent unit won't last long either, already had to replace the AC input filter (stinky!!!)."

--
Joe Leikhim

Leikhim and Associates

Communications Consultants

Oviedo, Florida

JLeikhim@...

407-982-0446

WWW.LEIKHIM.COM

# 2502. Hp8935

Yahoo group: hp8924
Date: 2016-10-28 19:12:26 UTC
From: wallydoc@...
Topic: 2502  Message: 2502

Anyone interested in a HP 8939 CDMA service monitor with option 105 (accurate frequency reference). It works fine. Includes the back pack and printed out instruction books in binders. e-mail me please.
Wally KC9INK

# 2503. Re: E8285A replacement options for HF work only?

Yahoo group: hp8924
Date: 2016-11-07 06:40:28 UTC
From: jyelmgren@...
Topic: 2494  Message: 2503

the 8920's that start to smell when turned on are usually the power supply needing to be re-capped. The power supply was unique to the 8920/21 model and not leveraged in any other product.

The AC input filter failing is a new one to me ...all these years and never replaced one due to an electrical failure

# 2504. Re: [hp8924] Re: E8285A replacement options for HF work only?

Yahoo group: hp8924
Date: 2016-11-07 13:51:53 UTC
From: Clif Holland
Topic: 2494  Message: 2504

My backup 8921 has the leaking cap smell when turned on. Just used it for the first time in a while and got the whiff of leaking caps. Another project.

Clif Holland KA5IPF
www.avvid.com
214-850-0973

On 11/7/2016 12:40 AM, jyelmgren@... [hp8924] wrote:
>
> the 8920's that start to smell when turned on are usually the power
> supply needing to be re-capped.
>
> The power supply was unique to the 8920/21 model and not leveraged in
> any other product.
>
> The AC input filter failing is a new one to me ...all these years and
> never replaced one due to an electrical failure
>

# 2505. 8924c Change TX Test Units?

Yahoo group: hp8924
Date: 2016-12-23 22:40:17 UTC
From: gretske@...
Topic: 2505  Message: 2505

I would like to measure some rf that is less than a watt. I know that you can change the units from dbm to uv etc. for some of the functions, but is there a way to change the units in the TX Test mode? I can't find a way to do it.

Gene
W4DSN

# 2506. Re: [hp8924] 8924c Change TX Test Units?

Yahoo group: hp8924
Date: 2016-12-23 23:12:54 UTC
From: Ralph Mowery
Topic: 2505  Message: 2506

You can go to the TX test screen.  Curser up to the top options where it says TX Power.  To the right it will probably have a W in the highlighted area.  You can set it to W, DBM, V,MV,  DBuV.
With about 5 decimal places of wattage I doubt you will get any lower power readings on any of the scales.  If you get below about 100 milliwatts you will probably have to go to the spectrum analizer and the antenna input.  Just do not hit that port with more than 200 milliwatts.
When you get the Power set to the units you want, go to the lower options to the TX PWR Zero and  push in on the round knob to zero out anything that may be showing up in the power scale.

From: "gretske@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Friday, December 23, 2016 5:40 PM
Subject: [hp8924] 8924c Change TX Test Units?

<!--#yiv0391132754 #yiv0391132754 .yiv0391132754ygrp-photo-title{clear:both;font-size:smaller;height:15px;overflow:hidden;text-align:center;width:75px;}#yiv0391132754 div.yiv0391132754ygrp-photo{background-position:center;background-repeat:no-repeat;background-color:white;border:1px solid black;height:62px;width:62px;}#yiv0391132754 div.yiv0391132754photo-title a, #yiv0391132754 div.yiv0391132754photo-title a:active, #yiv0391132754 div.yiv0391132754photo-title a:hover, #yiv0391132754 div.yiv0391132754photo-title a:visited {text-decoration:none;}#yiv0391132754 div.yiv0391132754attach-table div.yiv0391132754attach-row {clear:both;}#yiv0391132754 div.yiv0391132754attach-table div.yiv0391132754attach-row div {float:left;}#yiv0391132754 p {clear:both;padding:15px 0 3px 0;overflow:hidden;}#yiv0391132754 div.yiv0391132754ygrp-file {width:30px;}#yiv0391132754 div.yiv0391132754attach-table div.yiv0391132754attach-row div div a {text-decoration:none;}#yiv0391132754 div.yiv0391132754attach-table div.yiv0391132754attach-row div div span {font-weight:normal;}#yiv0391132754 div.yiv0391132754ygrp-file-title {font-weight:bold;}#yiv0391132754 --> <!--#yiv0391132754 #yiv0391132754ygrp-mkp {border:1px solid #d8d8d8;font-family:Arial;margin:10px 0;padding:0 10px;}#yiv0391132754 #yiv0391132754ygrp-mkp hr {border:1px solid #d8d8d8;}#yiv0391132754 #yiv0391132754ygrp-mkp #yiv0391132754hd {color:#628c2a;font-size:85%;font-weight:700;line-height:122%;margin:10px 0;}#yiv0391132754 #yiv0391132754ygrp-mkp #yiv0391132754ads {margin-bottom:10px;}#yiv0391132754 #yiv0391132754ygrp-mkp .yiv0391132754ad {padding:0 0;}#yiv0391132754 #yiv0391132754ygrp-mkp .yiv0391132754ad p {margin:0;}#yiv0391132754 #yiv0391132754ygrp-mkp .yiv0391132754ad a {color:#0000ff;text-decoration:none;}-->

I would like to measure some rf that is less than a watt. I know that you can change the units from dbm to uv etc. for some of the functions, but is there a way to change the units in the TX Test mode? I can't find a way to do it.
GeneW4DSN

# 2507. Re: [hp8924] 8924c Change TX Test Units?

Yahoo group: hp8924
Date: 2016-12-24 01:21:47 UTC
From: gretske@...
Topic: 2505  Message: 2507

Thanks Ralph, I appreciate the help.

Gene

# 2508. My 8924C died in its sleep. Now what?

Yahoo group: hp8924
Date: 2016-12-24 15:40:35 UTC
From: wpxs472@...
Topic: 2508  Message: 2508

My 8924C sits on my bench, plugged in but rarely turned on. The other day I decided to use it for a minute but when I hit the switch, nothing. So, I have an unused 8924E model. Can I just swap the power supplies? I understand that power supply removal is no simple matter. Maybe I can repair the supply and put it back in the Ë"model. I have read threads in the past detailing power supply repairs. I have my fingers crossed.

# 2509. RE: [hp8924] My 8924C died in its sleep. Now what?

Yahoo group: hp8924
Date: 2016-12-24 15:43:28 UTC
From: Mike Besemer
Topic: 2508  Message: 2509

Is the light on the back of the power supply lit?

If you've read the power supply repair threads, you already know what I'm talking about. The repair those threads detail is very easy; takes longer to remove the P/S than to do the repair.

Mike
WM4B

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com]
Sent: Saturday, December 24, 2016 10:41 AM
To: hp8924@yahoogroups.com
Subject: [hp8924] My 8924C died in its sleep. Now what?

My 8924C sits on my bench, plugged in but rarely turned on. The other day I decided to use it for a minute but when I hit the switch, nothing. So, I have an unused 8924E model. Can I just swap the power supplies? I understand that power supply removal is no simple matter. Maybe I can repair the supply and put it back in the Ë"model. I have read threads in the past detailing power supply repairs. I have my fingers crossed.

# 2510. Re: [hp8924] My 8924C died in its sleep. Now what?

Yahoo group: hp8924
Date: 2016-12-24 16:31:52 UTC
From: Ralph Mowery
Topic: 2508  Message: 2510

It is easy to remove the power supply.  Just what seems like about 100 screws to remove to get to it, then I think there are 2 plugs on it with about 10 wires each.
While it won't tell you much, look in the back of the unit and see if you can see a green LED glowing.  It will be on the right side when you are looking at it from the back.
Amtronix sells the supplies for around $ 200 and you get some back when you send them the old one.http://www.amtronix.com/

Do not run the 8924 with the cover for very long as it will overheat.

From: "wpxs472@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Saturday, December 24, 2016 10:40 AM
Subject: [hp8924] My 8924C died in its sleep. Now what?

<!--#yiv7880476540 #yiv7880476540 .yiv7880476540ygrp-photo-title{clear:both;font-size:smaller;height:15px;overflow:hidden;text-align:center;width:75px;}#yiv7880476540 div.yiv7880476540ygrp-photo{background-position:center;background-repeat:no-repeat;background-color:white;border:1px solid black;height:62px;width:62px;}#yiv7880476540 div.yiv7880476540photo-title a, #yiv7880476540 div.yiv7880476540photo-title a:active, #yiv7880476540 div.yiv7880476540photo-title a:hover, #yiv7880476540 div.yiv7880476540photo-title a:visited {text-decoration:none;}#yiv7880476540 div.yiv7880476540attach-table div.yiv7880476540attach-row {clear:both;}#yiv7880476540 div.yiv7880476540attach-table div.yiv7880476540attach-row div {float:left;}#yiv7880476540 p {clear:both;padding:15px 0 3px 0;overflow:hidden;}#yiv7880476540 div.yiv7880476540ygrp-file {width:30px;}#yiv7880476540 div.yiv7880476540attach-table div.yiv7880476540attach-row div div a {text-decoration:none;}#yiv7880476540 div.yiv7880476540attach-table div.yiv7880476540attach-row div div span {font-weight:normal;}#yiv7880476540 div.yiv7880476540ygrp-file-title {font-weight:bold;}#yiv7880476540 --> <!--#yiv7880476540 #yiv7880476540ygrp-mkp {border:1px solid #d8d8d8;font-family:Arial;margin:10px 0;padding:0 10px;}#yiv7880476540 #yiv7880476540ygrp-mkp hr {border:1px solid #d8d8d8;}#yiv7880476540 #yiv7880476540ygrp-mkp #yiv7880476540hd {color:#628c2a;font-size:85%;font-weight:700;line-height:122%;margin:10px 0;}#yiv7880476540 #yiv7880476540ygrp-mkp #yiv7880476540ads {margin-bottom:10px;}#yiv7880476540 #yiv7880476540ygrp-mkp .yiv7880476540ad {padding:0 0;}#yiv7880476540 #yiv7880476540ygrp-mkp .yiv7880476540ad p {margin:0;}#yiv7880476540 #yiv7880476540ygrp-mkp .yiv7880476540ad a {color:#0000ff;text-decoration:none;}-->

My 8924C sits on my bench, plugged in but rarely turned on. The other day I decided to use it for a minute but when I hit the switch, nothing. So, I have an unused 8924E model. Can I just swap the power supplies? I understand that power supply removal is no simple matter. Maybe I can repair the supply and put it back in the Ë"model. I have read threads in the past detailing power supply repairs. I have my fingers crossed.

--

# 2511. RE: [hp8924] My 8924C died in its sleep. Now what?

Yahoo group: hp8924
Date: 2016-12-28 15:06:08 UTC
From: wpxs472@...
Topic: 2508  Message: 2511

Finally got around to removing it from the bench. The little green LED isn't on. I thought it had an accessible fuse, but I don't see one.

# 2512. RE: [hp8924] My 8924C died in its sleep. Now what?

Yahoo group: hp8924
Date: 2016-12-28 15:10:00 UTC
From: Mike Besemer
Topic: 2508  Message: 2512

Search the group or Google it. Easy repair.

Mike

WM4B

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com]
Sent: Wednesday, December 28, 2016 10:06 AM
To: hp8924@yahoogroups.com
Subject: RE: [hp8924] My 8924C died in its sleep. Now what?

Finally got around to removing it from the bench. The little green LED isn't on. I thought it had an accessible fuse, but I don't see one.

# 2513. Re: My 8924C died in its sleep. Now what?

Yahoo group: hp8924
Date: 2016-12-28 17:17:48 UTC
From: wpxs472@...
Topic: 2508  Message: 2513

I removed the supply. The fuse is good and there are no bulging caps. Pluging it in outside of the analyzer seems of little use since the on/off switch is in the analyzer itself. Guess the next step is to haul the organ donor up and make sure it powers up. I have repaired lots of linear supplies in my day, but switchers, not so much. I might look to Amtronix for a rebuilt one.

# 2514. RE: [hp8924] Re: My 8924C died in its sleep. Now what?

Yahoo group: hp8924
Date: 2016-12-28 18:00:53 UTC
From: mwbesemer
Topic: 2508  Message: 2514

If you don't at least try to fix the supply you have,  you're wasting money. There is much information on this group about how to fix these power supplies.  For less than $10 you can replace a couple of capacitors and have it running again 9 times out of 10.  It's far from being rocket surgery.

Sent from my Verizon Wireless 4G LTE smartphone

-------- Original message --------
From: "wpxs472@gmail.com [hp8924]" <hp8924@yahoogroups.com>
Date: 12/28/2016 12:17 PM (GMT-05:00)
To: hp8924@yahoogroups.com
Subject: [hp8924] Re: My 8924C died in its sleep. Now what?

I removed the supply. The fuse is good and there are no bulging caps. Pluging it in outside of the analyzer seems of little use since the on/off switch is in the analyzer itself. Guess the next step is to haul the organ donor up and make sure it powers up. I have repaired lots of linear supplies in my day, but switchers, not so much. I might look to Amtronix for a rebuilt one.

# 2515. Re: [hp8924] Re: My 8924C died in its sleep. Now what?

Yahoo group: hp8924
Date: 2016-12-29 04:03:35 UTC
From: Thomas Leather
Topic: 2508 Message: 2515

It took me longer to take it out put it back in then it did to fix mine it was a few caps

Sent from my iPhone

> On Dec 28, 2016, at 1:00 PM, mwbesemer mwbesemer@... [hp8924] <hp8924@yahoogroups.com> wrote:
>
> If you don't at least try to fix the supply you have, you're wasting money. There is much information on this group about how to fix these power supplies. For less than $10 you can replace a couple of capacitors and have it running again 9 times out of 10. It's far from being rocket surgery.
>
>
>
> Sent from my Verizon Wireless 4G LTE smartphone
>
>
> -------- Original message --------
> From: "wpxs472@... [hp8924]" <hp8924@...m>
> Date: 12/28/2016 12:17 PM (GMT-05:00)
> To: hp8924@yahoogroups.com
> Subject: [hp8924] Re: My 8924C died in its sleep. Now what?
>
>
> I removed the supply. The fuse is good and there are no bulging caps. Pluging it in outside of the analyzer seems of little use since the on/off switch is in the analyzer itself. Guess the next step is to haul the organ donor up and make sure it powers up. I have repaired lots of linear supplies in my day, but switchers, not so much. I might look to Amtronix for a rebuilt one.
>
>

# 2516. Re: [hp8924] 8924c Change TX Test Units?

Yahoo group: hp8924
Date: 2016-12-29 10:57:20 UTC
From: Jose Hernandez
Topic: 2505  Message: 2516

Good morning Gene,Please i need a favor and i know it is still very early but it is urgent, i don't know if you can help me send money ($1000) through western union money transfer or via bank account to someone. I will refund you your money back including all expenses made during this transaction. Please am counting on you.ThanksJose Hernandez

On Saturday, December 24, 2016 2:21 AM, "gretske@... [hp8924]" <hp8924@yahoogroups.com> wrote:

  Thanks Ralph, I appreciate the help.
Gene

# 2517. Re: New file uploaded to hp8924

Yahoo group: hp8924
Date: 2016-12-31 23:12:35 UTC
From: danderson255@...
Topic: 31  Message: 2517

Was this file deleted?

# 2518. Re: [hp8924] Re: New file uploaded to hp8924

Yahoo group: hp8924
Date: 2016-12-31 23:32:28 UTC
From: Glenn Little WB4UIV
Topic: 31  Message: 2518

What file??

73
Glenn
WB4UIV

On 12/31/2016 6:12 PM, danderson255@... [hp8924] wrote:
>
>
> Was this file deleted?
>
>

--
---
Glenn Little ARRL Technical Specialist QCWA LM 28417
Amateur Callsign: WB4UIV wb4uiv@... AMSAT LM 2178
QTH: Goose Creek, SC USA (EM92xx) USSVI LM NRA LM SBE ARRL TAPR
"It is not the class of license that the Amateur holds but the class
of the Amateur that holds the license"
---

# 2519. Re: [hp8924] Re: New file uploaded to hp8924

Yahoo group: hp8924
Date: 2017-01-01 16:45:55 UTC
From: danderson255@...
Topic: 31  Message: 2519

Ahh, it didnt quote the message, this would be the file:

File : /GBS8220 to HP 89xx.rar
Uploaded by : leonnix77 <leonnix77@... mailto:leonnix77@...>
Description : This LM1881 interface for the GBS8220 worked for me - schematic included. Many snippets of information in separate places but never could find a complete schematic. Hopefully it will help others. Again this worked for me, no guarantees it will work for others.

You can access this file at the URL:
https://groups.yahoo.com/neo/groups/hp8924/files/GBS8220%20to%20HP%2089xx.rar
https://groups.yahoo.com/neo/groups/hp8924/files/GBS8220%20to%20HP%2089xx.rar

Its apparently deleted. I was rebuilding the sync converter for mine, i think there may be a problem with the GBS-8220 itself at this point so im likely going to just buy another and see if thats why im no longer getting video out of the converter on any of the inputs other than the YGB input and only directly from the 8924 and nothing from the sync circuit when its connected to said input. I think while it was in storage static may have killed both lol.

Thanks for pointing out the message hadnt been quoted!

David

# 2520. 8924C 10 MHz Reference Osc Failure

Yahoo group: hp8924
Date: 2017-01-06 12:45:27 UTC
From: black@...
Topic: 2520  Message: 2520

Information learned when my oscillator failed that may be useful to others.

Symptoms - After boot-up there were periodic beeps and an unlock message at the top of the screen. The initial 5-10 minutes duration slowly increased to over an hour in about 2 years of occasional use then became permanent. Instability very obvious in rx and tx modes when out of lock as warbling tone. After repair there are no beeps or error messages after boot-up. I'd always had some error messages and beeps when 'cold starting' but after the repair and talking to another 8924 user there should be no reference error messages after boot-up unless possibly very cold at turn-on. If you have the same symptoms read-on.

Repair - While waiting for a replacement oscillator I thought I might as well try repairing the faulty one. Just too inconvenient to not have it available as well as what to do with a partially dismantled 8924 for a couple of weeks? The oscillator is attached to the rear panel with 3 bolts and can be removed with the rear module cover in place by disconnecting the coax plug and un-soldering the 4 wires as you lift it out. I understand there is a connector on the end of the 4 wires but it appears very difficult to reach. Recommend extending the wires by 50 mm to make reconnecting easier. Remove external power before starting as there is an un-switched 15 V standby rail going to the oscillator.

I cut the metal cover open where it is soldered to the mounting flange carefully with a hacksaw. This gave access to the pcb after lifting out some insulating foam. After some time spent checking voltages I suspected the LM358 had failed and replaced it with a MC1458 I had on-hand. The oscillator now had output and the heating was working again as well. Re-soldered the cover back in place, refitted and reassembled, checking it still worked after each step.

Learnt - Once the oscillator's case is breached with the right mix of skill and luck the prospects of being able to repair it are OK.It has mostly common SMD components with recognizable markings but keep in mind temperature characteristics. The crystal's temperature marking is 83.5 deg C. There is not much thermal mass in the oscillator allowing it to quickly reach operating temperature. On the oscillator I have the 15 V standby supply connected to the heater transistor but does nothing unless the main power supply is operating. So there is no point leaving power applied to this 8924 when not in use. Other makes of oscillator might have different internals and maintain operating temperature in standby. You may be able to tell if yours is the same by checking for any warmth on the back panel next to the adjustment screw after being in standby for a time.

Next - In 2-3 weeks I hope to have received the replacement oscillator and a GPS disciplined oscillator (GDO) to evaluate the repaired unit then decide whether to stay with the repaired unit, fit the replacement or use the GDO as the 8924's reference full time. Also to work out roughly how long it takes after a 'cold start' to reach stability. Useful to know/justify how much time to take over lunch.

# 2521. Re: [hp8924] Re: My 8924C died in its sleep. Now what?

Yahoo group: hp8924
Date: 2017-01-06 16:42:06 UTC
From: wpxs472@...
Topic: 2508  Message: 2521

I replaced the two caps on the small daughter board. The caps I had on hand were lots bigger than the originals. Got the supply back together, put it back in the analyzer without any screws and it works again. Thanks to those who posted for the encouragement. Now, I have to figure which of the hundred screws I have left goes where.

# 2522. FS: HP 11807E Opt 100 --- 4Mb Card

Yahoo group: hp8924
Date: 2017-01-10 17:28:34 UTC
From: jsternmd@...
Topic: 2522  Message: 2522

FS: HP 11807 opt 100 RF Communication Test Set on 4 Mb card $45 includes free shipping in USA Sold my HP 8920.

Jerry NY2KW

# 2523. Re: [hp8924] FS: HP 11807E Opt 100 --- 4Mb Card

Yahoo group: hp8924
Date: 2017-01-10 17:39:00 UTC
From: Paul Cloud
Topic: 2522  Message: 2523

I'm interested if that is for an 8920a.

Thanks, Paul

On Jan 10, 2017 11:28 AM, "jsternmd@... [hp8924]" <
hp8924@yahoogroups.com> wrote:

>
>
> FS: HP 11807 opt 100 RF Communication Test Set on 4 Mb card $45 includes
> free shipping in USA Sold my HP 8920.
>
>
>
> Jerry NY2KW
>
>
>
>

# 2524. Re: [hp8924] FS: HP 11807E Opt 100 --- 4Mb Card

Yahoo group: hp8924
Date: 2017-01-10 18:27:15 UTC
From: Robert Atkinson
Topic: 2522  Message: 2524

11807E is the PCMCIA verion for 8920B / 8924You need a 11807A for (Epson card) the 8920A
Robert G8RPI.

From: "Paul Cloud jpcloud04@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Tuesday, 10 January 2017, 17:39
Subject: Re: [hp8924] FS: HP 11807E Opt 100 --- 4Mb Card

I'm interested if that is for an 8920a.Thanks, Paul
On Jan 10, 2017 11:28 AM, "jsternmd@... [hp8924]" <hp8924@yahoogroups.com> wrote:

FS: HP 11807 opt 100 RF Communication Test Set on 4 Mb card $45 includes free shipping in USA  Sold my HP 8920. Jerry NY2KW

# 2525. 8920A LCD conversion project

Yahoo group: hp8924
Date: 2017-01-12 19:13:39 UTC
From: rbarrioss@...
Topic: 2525  Message: 2525

Hi,

I just finished converting the 8920A to LCD. It has not been easy, and it has not been quick, but the result is great. You might get ideas or inspiration from this:

http://www.rbarrios.com/projects/8920LCD/ http://www.rbarrios.com/projects/8920LCD/

Regards,
Roberto EB4EQA

# 2526. RE: [hp8924] 8920A LCD conversion project

Yahoo group: hp8924
Date: 2017-01-12 19:34:59 UTC
From: k0uc
Topic: 2525  Message: 2526

Nice work, Roberto!  It looks great.
Now you'll never have to worry about the CRT again.
Does anyone have a good price source for that XVGA box?  (GBS 8219)Looks like abou $165 shipped on Ebay.
BradyK0UC

Sent from my Sprint Samsung Galaxy® Note 4.

-------- Original message --------
From: "rbarrioss@msn.com [hp8924]" <hp8924@yahoogroups.com>
Date: 1/12/17 13:13 (GMT-06:00)
To: hp8924@yahoogroups.com
Subject: [hp8924] 8920A LCD conversion project

Hi,
I just finished converting the 8920A to LCD. It has not been easy, and it has not been quick, but the result is great. You might get ideas or inspiration from this:
http://www.rbarrios.com/projects/8920LCD/
Regards,Roberto EB4EQA

# 2527. RE: [hp8924] 8920A LCD conversion project

Yahoo group: hp8924
Date: 2017-01-12 19:49:13 UTC
From: Gabriel R. - TELECELL T&M
Topic: 2525  Message: 2527

Excelente trabajo, Roberto!

Yo tengo la ambición de hacer substituir el Display del IFR modelo 120B. Ya tubiste oportunidad de estudiar esta possibilidad?

Abrazo,

Gabriel Ávila

De: "rbarrioss@... [hp8924]"
Enviada: 2017/01/12 17:13:42
Para: hp8924@yahoogroups.com
Assunto: [hp8924] 8920A LCD conversion project

Hi,

I just finished converting the 8920A to LCD. It has not been easy, and it has not been quick, but the result is great. You might get ideas or inspiration from this:

http://www.rbarrios.com/projects/8920LCD/

Regards,

Roberto EB4EQA

# 2528. Re: [hp8924] 8920A LCD conversion project

Yahoo group: hp8924
Date: 2017-01-12 20:14:17 UTC
From: wb4yjt@...
Topic: 2525  Message: 2528

I had great success converting my HP 8753C Network Analyzer video to VGA using the much-less-expensive GBS-8220. It's typically in the $30.00 range.

You might want to give it a try.

On Thu, Jan 12, 2017 at 12:34 PM, k0uc k0uc@... [hp8924] <hp8924@yahoogroups.com> wrote:

>
>
> Nice work, Roberto! It looks great.
>
> Now you'll never have to worry about the CRT again.
>
> Does anyone have a good price source for that XVGA box? (GBS 8219)
> Looks like abou $165 shipped on Ebay.
>
> Brady
> K0UC
>
>
>
>
>
>
> Sent from my Sprint Samsung Galaxy® Note 4.
>
>
> -------- Original message --------
> From: "rbarrioss@... [hp8924]" <hp8924@yahoogroups.com>
> Date: 1/12/17 13:13 (GMT-06:00)
> To: hp8924@yahoogroups.com
> Subject: [hp8924] 8920A LCD conversion project
>
>
>
> Hi,
>
> I just finished converting the 8920A to LCD. It has not been easy, and it
> has not been quick, but the result is great. You might get ideas or
> inspiration from this:
>
> http://www.rbarrios.com/projects/8920LCD/
>
> Regards,
> Roberto EB4EQA

>
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>
>
>

# 2529. Re: 8920A LCD conversion project

Yahoo group: hp8924
Date: 2017-01-12 20:57:30 UTC
From: rbarrioss@...
Topic: 2525  Message: 2529

Yes, I tries the GBS board with the 8753C and it worked fine. But not with the 8920 in my case. Other might have more luck than I did.

Roberto

# 2530. RE: [hp8924] 8920A LCD conversion project

Yahoo group: hp8924
Date: 2017-01-12 21:19:44 UTC
From: rbarrioss@...
Topic: 2525  Message: 2530

Hola Gabriel. No conozco ese instrumento pero parece que no tiene salida de vídeo. Eso complica el tema bastante...

Saludos!
Roberto

# 2531. Re: [hp8924] 8920A LCD conversion project

Yahoo group: hp8924
Date: 2017-01-12 22:29:21 UTC
From: k0uc
Topic: 2525  Message: 2531

WB4YJT..did you need a sync stripper or any other external components with the 8220?
Brady

Sent from my Sprint Samsung Galaxy® Note 4.

-------- Original message --------
From: "wb4yjt@gmail.com [hp8924]" <hp8924@yahoogroups.com>
Date: 1/12/17 14:14 (GMT-06:00)
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] 8920A LCD conversion project

I had great success converting my HP 8753C Network Analyzer video to VGA using the much-less-expensive GBS-8220.  It's typically in the $30.00 range.

You might want to give it a try.

On Thu, Jan 12, 2017 at 12:34 PM, k0uc k0uc@gmx.com [hp8924] <hp8924@yahoogroups.com> wrote:

Nice work, Roberto!  It looks great.
Now you'll never have to worry about the CRT again.
Does anyone have a good price source for that XVGA box?  (GBS 8219)Looks like abou $165 shipped on Ebay.
BradyK0UC

Sent from my Sprint Samsung Galaxy® Note 4.

-------- Original message --------
From: "rbarrioss@msn.com [hp8924]" <hp8924@yahoogroups.com>
Date: 1/12/17 13:13 (GMT-06:00)
To: hp8924@yahoogroups.com
Subject: [hp8924] 8920A LCD conversion project

Hi,
I just finished converting the 8920A to LCD. It has not been easy, and it has not been quick, but the result is great. You might get ideas or inspiration from this:
http://www.rbarrios.com/projects/8920LCD/
Regards,Roberto EB4EQA

# 2532. Re: [hp8924] 8920A LCD conversion project

Yahoo group: hp8924
Date: 2017-01-13 05:05:14 UTC
From: wb4yjt@...
Topic: 2525  Message: 2532

I did not need a sync stripper.

The sync was on the green signal, so I connected the green signal to the green input, and also through a 1K resistor to the sync input.

Works like a charm!
==========

On Thu, Jan 12, 2017 at 3:29 PM, k0uc k0uc@gmx.com [hp8924] <
hp8924@yahoogroups.com> wrote:

>
>
> WB4YJT..did you need a sync stripper or any other external components with
> the 8220?
>
> Brady
>
>
>
> Sent from my Sprint Samsung Galaxy® Note 4.
>
>
> -------- Original message --------
> From: "wb4yjt@... [hp8924]" <hp8924@yahoogroups.com>
> Date: 1/12/17 14:14 (GMT-06:00)
> To: hp8924@yahoogroups.com
> Subject: Re: [hp8924] 8920A LCD conversion project
>
>
>
> I had great success converting my HP 8753C Network Analyzer video to VGA
> using the much-less-expensive GBS-8220. It's typically in the $30.00 range.
>
> You might want to give it a try.
>
> On Thu, Jan 12, 2017 at 12:34 PM, k0uc k0uc@gmx.com [hp8924] <
> hp8924@yahoogroups.com> wrote:
>
>>
>>
>> Nice work, Roberto! It looks great.
>>
>> Now you'll never have to worry about the CRT again.
>>
>> Does anyone have a good price source for that XVGA box? (GBS 8219)

>> Looks like abou $165 shipped on Ebay.
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>> Brady
>> K0UC
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>>
>>
>>
>>
>> Sent from my Sprint Samsung Galaxy® Note 4.
>>
>>
>> -------- Original message --------
>> From: "rbarrioss@... [hp8924]" <hp8924@yahoogroups.com>
>> Date: 1/12/17 13:13 (GMT-06:00)
>> To: hp8924@yahoogroups.com
>> Subject: [hp8924] 8920A LCD conversion project
>>
>>
>>
>> Hi,
>>
>> I just finished converting the 8920A to LCD. It has not been easy, and it
>> has not been quick, but the result is great. You might get ideas or
>> inspiration from this:
>>
>> http://www.rbarrios.com/projects/8920LCD/
>>
>> Regards,
>> Roberto EB4EQA
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>

# 2533. Re: [hp8924] 8920A LCD conversion project

Yahoo group: hp8924
Date: 2017-01-14 01:24:12 UTC
From: k0uc
Topic: 2525  Message: 2533

I'm going to try the GBS 8220 on my E8285A I think.
Brady

-------- Original message --------
From: "wb4yjt@gmail.com [hp8924]" <hp8924@yahoogroups.com>
Date: 1/12/17 23:05 (GMT-06:00)
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] 8920A LCD conversion project

I did not need a sync stripper.

The sync was on the green signal, so I connected the green signal to the green input, and also through a 1K resistor to the sync input.

Works like a charm!
==========

On Thu, Jan 12, 2017 at 3:29 PM, k0uc k0uc@gmx.com [hp8924] <hp8924@yahoogroups.com> wrote:

WB4YJT..did you need a sync stripper or any other external components with the 8220?
Brady

Sent from my Sprint Samsung Galaxy® Note 4.

-------- Original message --------
From: "wb4yjt@gmail.com [hp8924]" <hp8924@yahoogroups.com>
Date: 1/12/17 14:14 (GMT-06:00)
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] 8920A LCD conversion project

I had great success converting my HP 8753C Network Analyzer video to VGA using the much-less-expensive GBS-8220.  It's typically in the $30.00 range.

You might want to give it a try.

On Thu, Jan 12, 2017 at 12:34 PM, k0uc k0uc@gmx.com [hp8924] <hp8924@yahoogroups.com> wrote:

Nice work, Roberto!  It looks great.
Now you'll never have to worry about the CRT again.
Does anyone have a good price source for that XVGA box?  (GBS 8219)Looks like abou $165 shipped on Ebay.
BradyK0UC

Sent from my Sprint Samsung Galaxy® Note 4.

-------- Original message --------
From: "rbarrioss@msn.com [hp8924]" <hp8924@yahoogroups.com>

Date: 1/12/17 13:13 (GMT-06:00)
To: hp8924@yahoogroups.com
Subject: [hp8924] 8920A LCD conversion project

Hi,
I just finished converting the 8920A to LCD. It has not been easy, and it has not been quick, but the result is great. You might get ideas or inspiration from this:
http://www.rbarrios.com/projects/8920LCD/
Regards,Roberto EB4EQA

# 2534. Re: FS: HP 11807E Opt 100 --- 4Mb Card

Yahoo group: hp8924
Date: 2017-01-17 13:22:33 UTC
From: tsusegroups@...
Topic: 2522  Message: 2534

I am interested. I am running a HP8924C.

Tom

# 2535. FS: 6 KHz Band Pass Filter for HP 8920A/B - HP 08920-60268 Option 014

Yahoo group: hp8924
Date: 2017-02-20 02:27:17 UTC
From: jsternmd@...
Topic: 2535  Message: 2535

New, in original box.

HP 08920-60268 Option 014 6 KHz Bandpass Filter

$70 OBO plus shipping

Pse reply to ny2kw@arrl.net

jerry

# 2536. Agilent E8285A CRT Died

Yahoo group: hp8924
Date: 2017-03-02 00:22:42 UTC
From: kk4wh@...
Topic: 2536  Message: 2536

I have an Agilent E8285A that the CRT has died. Is the external video connection on the rear supplied from the same module that drives the on-board display? Would it be possible to go with an external monitor to get another 10 months or so of use. I have already planned for a replacement service monitor but can't purchase until after the first of the year. Any suggestions are appreciated.

Thanks for the help
Tim

# 2537. Re: [hp8924] Agilent E8285A CRT Died

Yahoo group: hp8924
Date: 2017-03-02 00:33:11 UTC
From: keith
Topic: 2536  Message: 2537

I doubt that the VGA output is from the same module. You may need a graphics converter though. Have your display module checked first.

From: mailto:hp8924@yahoogroups.com
Sent: Thursday, March 02, 2017 1:22 PM
To: hp8924@yahoogroups.com
Subject: [hp8924] Agilent E8285A CRT Died

I have an Agilent E8285A that the CRT has died. Is the external video connection on the rear supplied from the same module that drives the on-board display? Would it be possible to go with an external monitor to get another 10 months or so of use. I have already planned for a replacement service monitor but can't purchase until after the first of the year. Any suggestions are appreciated.

Thanks for the help
Tim

---
This email has been checked for viruses by Avast antivirus software.
https://www.avast.com/antivirus

# 2538. Re: Agilent E8285A CRT Died

Yahoo group: hp8924
Date: 2017-03-02 01:54:50 UTC
From: zl1cvd@...
Topic: 2536  Message: 2538

The display driver E6380-61816 inside E8285A drives both the plasma display and the rear panel composite video out. A common no-display failure is dry caps on the back of the plasma display. I have yet to see the display driver card (E6380-61816) fail! Search these messages for GBS8220 converter. Also there is some stuff in the files section. Have a hunt, its all here...

# 2539. Re: Agilent E8285A CRT Died

Yahoo group: hp8924
Date: 2017-03-02 05:24:37 UTC
From: k0uc@...
Topic: 2536  Message: 2539

I see that Amtronix notes that the E8285A and 8935 have 15 kHz scan rate while the 8924x and 8920x have a 19 kHz scan rate on the video output. The 15 kHz rate seems to have many more options for converters than the 19kHz rate.

Maybe that's the confusion over why some solutions work for some and not others. I think I will order a 15 kHz converter of some sort for my E8285A and see how it plays. And see if I can get by without a sync separator and just use a resistive splitting network to supply sync to the converter.

Am I way off base or does this sound about right for those that have done an external monitor specifically on the E8285A.

Half the fun is making it work, right?

Brady
K0UC

# 2540. Re: [hp8924] Re: Agilent E8285A CRT Died

Yahoo group: hp8924
Date: 2017-03-02 07:21:22 UTC
From: Robert Atkinson
Topic: 2536  Message: 2540

Hi that sounds about right. If you don't mind having a play the "bare" GBS8200 /8220 boards are a lot cheaper than a packaged solution.As noted this unit uses a plasma display not a CRT. Unless it's a simple capacitor failure or similar I'd look at replacing it with a small LCD of the type sold for car use and a GBS8220 (use the second output for external display) fitted internally.The plasma displays are very expensive to buy or repair. I've seen test equipment (mostly telecom) scrapped just to get the display. If you do swap it out one of the companies that repairs plasma displays will almost certainly buy the faulty one from you for spare parts.
Robert G8RPI.

From: "k0uc@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Thursday, 2 March 2017, 5:24
Subject: [hp8924] Re: Agilent E8285A CRT Died

I see that Amtronix notes that the E8285A and 8935 have 15 kHz scan rate while the 8924x and 8920x have a 19 kHz scan rate on the video output. The 15 kHz rate seems to have many more options for converters than the 19kHz rate.
Maybe that's the confusion over why some solutions work for some and not others. I think I will order a 15 kHz converter of some sort for my E8285A and see how it plays. And see if I can get by without a sync separator and just use a resistive splitting network to supply sync to the converter.
Am I way off base or does this sound about right for those that have done an external monitor specifically on the E8285A.
Half the fun is making it work, right?
BradyK0UC

# 2541. RE: [hp8924] Agilent E8285A CRT Died

Yahoo group: hp8924
Date: 2017-03-02 03:38:57 UTC
From: k0uc
Topic: 2536  Message: 2541

Hi Tim..
I have also been looking for an external display option as my E8285A has some screen burn. I have looked thru the archives and have seen some references to various ways to get some of the service monitors to work on an external monitor with varying levels of solution complexity.
Has anyone used an external display on an E8285A with a currently available specific board from a specific vendor?  When you go look at available boards there are many options and clones out there.  It's a bit overwhelming to try to pick one that will work.
Along similar lines....does anyone if a solution for say an 8924 would work for the E8285A? I would think  the the old spec video output is the same on a bunch of HP equipment.

BradyK0UC

Sent from my Sprint Samsung Galaxy® Note 4.

-------- Original message --------
From: "kk4wh@yahoo.com [hp8924]" <hp8924@yahoogroups.com>
Date: 3/1/17 18:22 (GMT-06:00)
To: hp8924@yahoogroups.com
Subject: [hp8924] Agilent E8285A CRT Died

I have an Agilent E8285A that the CRT has died. Is the external video connection on the rear supplied from the same module that drives the on-board  display? Would it be possible to go with an external monitor to get another 10 months or so of use. I have already planned for a replacement service monitor but can't purchase until after the first of the year. Any suggestions are appreciated.

Thanks for the help
Tim

# 2542. Re: Agilent E8285A CRT Died

Yahoo group: hp8924
Date: 2017-03-04 13:16:34 UTC
From: Frank Hughes
Topic: 2536  Message: 2542

Have replaced the display once on my E8285A w/ a used display from Amtronix.No idea how long it will last. From their website comparison page, looks like the HP 8920A OPT 102 could replace the E8285A for my HF work.But the 8920A is over 20 years old too, must have it’s own age related failures.
Is the only other option to obtain a SA/TG for HF one of the new Chinese things?73FrankKJ4OLL

# 2543. Re: Agilent E8285A CRT Died

Yahoo group: hp8924
Date: 2017-03-04 14:02:45 UTC
From: ob1kinobi1999@...
Topic: 2536  Message: 2543

Guys just wanted you all to know, if its an hp device, with a composite video out that there is a easy option for connecting external monitors, TV etc..
I have a Sony DSC-1024G, it is a video signal editor basically, it does allow you to use a 15khz HP video signal and it will convert it to whatever you want, I love it but be aware mine gets a little warm so don't stack a lot of stuff on top, preferably just a LCD monitor. these units run approx 50 - 125$ used right now, I got mine for 50. there were 3 on eBay 50,125,135 so if you look around you may be able to find one cheap. the only other option is you can look in the file archives and modify one of the video game boards to do it but i haven't been able to make it work yet.
I also found a guy that has brand new CRTs for these units, the 8920's and the 8924's cost of a brand new CRT is about 120, i went ahead and replaced mine as it had some screen burn, and i wanted to get it fixed before the parts became to hard to find. so i still have my old CRT as a backup in case something happens but not a bad issue. I turned the brightness all the way down, and if I want it lower there is a pot on the internal board for dimming it more. then I just use the external monitor.

# 2544. Re: Agilent E8285A CRT Died

Yahoo group: hp8924
Date: 2017-03-04 14:49:27 UTC
From: robert8rpi@...
Topic: 2536  Message: 2544

Thanks for the tip on the Sony DSG1924. I've got a GBS8220 on my 8924C but the Sony looks great for a back-up and other applications like VGA to composite conversion. £34 including shipping on UK ebay from a seller I've used before :-)

# 2545. Re: Agilent E8285A CRT Died

Yahoo group: hp8924
Date: 2017-03-04 14:59:07 UTC
From: ob1kinobi1999@...
Topic: 2536  Message: 2545

if you have the gbs8220 working could you please send pictures and schematics, the pictures and instructions in the archive are to vague for me to follow, and I have found no where else to get the modification notes. every once in a while I will need to haul the 8924 into the field, and its a but much to haul the Sony around too. I would like to get the GBS working for field use.

no immediate rush as my 8924 is down right now, the green LED at the back inside lights up but unit does not power up, unknown reason at this time. will check articles and post if I need help with that, but still would like to get GBS working.

# 2546. Re: Agilent E8285A CRT Died

Yahoo group: hp8924
Date: 2017-03-04 15:19:38 UTC
From: robert8rpi@...
Topic: 2536  Message: 2546

Hi,
My GBS is tucked in behind the rack but I'll dig it out next time I'm in there.
I think I was probably the first to try the GBS on a 8924C. I use a LM1881 sync separator and the only issue I found was the need for a series resistor between the LM1881 sync output and the GBS as it does not like the 5V output of the LM1881. You can buy a boxed up ready to go units like the GBS8219 Xvga box but they are more expensive.

Robert G8RPI.

# 2547. Re: Agilent E8285A CRT Died

Yahoo group: hp8924
Date: 2017-03-04 15:23:04 UTC
From: ob1kinobi1999@...
Topic: 2536  Message: 2547

thanks, I bought 5 of the 1881 chips and actually i think it was the 8200 i got but I could never make it work, I think I used a resistor too but am unsure that was last year. in the photo archives the pictures indicate soldering wires to the processor and such, also there using a 339 chip. could not find good instructions but would prefer not to have to modify the board and would like to use the 1881 chips.

# 2548. Re: [hp8924] Re: Agilent E8285A CRT Died

Yahoo group: hp8924
Date: 2017-03-04 18:00:02 UTC
From: Ralph Mowery
Topic: 2536  Message: 2548
Attachments: 1 described; binary payloads are missing from this source WARC

This is the way I wired my 8200 .
To use the GSB-8200 converter with the hp-8924c service monitor.
Obtain:
LM1881N IC sync seperator.1 UF capacitor--2 required680 K  ohm resistor
To be mounted on the GSB8200 board will be 4 SMD 50 K ohm resistors.  Without the resistors the display will seem to work for about 30 seconds and fade out. That is what it did for me.
You will need to supply 5 volts DC for the gsb8200 and lm1881.
On the LM1881 connect pin 1 to the # 4 (gray wire) pin of the 8 pin RGBS input connector.Pin 2 to a .1 UF capacitor and then to  the Green input of the 8 pin RGBS connector A wire from that junction goes to the video input from the video output of the 8924C.Pin 4 to ground.Pin 6 has a .1 UF and 680 K resistor in parallel to ground.Pin 8 goes to 5 volts.Pins 3,5,7 are not used.
The 4 SMD 50 K ohm resistors are soldered across capacitors 29,32,33, and 36 on the GSB8200 board.  They are in a row between the 3 pots and an IC.
This will provide a green video output to a VGA monitor.

From: "ob1kinobi1999@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Saturday, March 4, 2017 10:23 AM
Subject: [hp8924] Re: Agilent E8285A CRT Died

#yiv6927211751 #yiv6927211751 -- #yiv6927211751 .yiv6927211751ygrp-photo-title{clear:both;
font-size:smaller;height:15px;overflow:hidden;text-align:center;width:75px;}#yiv6927211751
div.yiv6927211751ygrp-photo{background-position:center;background-repeat:no-repeat;backgro
und-color:white;border:1px solid black;height:62px;width:62px;}#yiv6927211751
div.yiv6927211751photo-title a, #yiv6927211751 div.yiv6927211751photo-title a:active,
#yiv6927211751 div.yiv6927211751photo-title a:hover, #yiv6927211751
div.yiv6927211751photo-title a:visited {text-decoration:none;}#yiv6927211751
div.yiv6927211751attach-table div.yiv6927211751attach-row {clear:both;}#yiv6927211751
div.yiv6927211751attach-table div.yiv6927211751attach-row div {float:left;}#yiv6927211751
p {clear:both;padding:15px 0 3px 0;overflow:hidden;}#yiv6927211751
div.yiv6927211751ygrp-file {width:30px;}#yiv6927211751 div.yiv6927211751attach-table
div.yiv6927211751attach-row div div a {text-decoration:none;}#yiv6927211751
div.yiv6927211751attach-table div.yiv6927211751attach-row div div span
{font-weight:normal;}#yiv6927211751 div.yiv6927211751ygrp-file-title
{font-weight:bold;}#yiv6927211751 #yiv6927211751 #yiv6927211751 #yiv6927211751
--#yiv6927211751ygrp-mkp {border:1px solid #d8d8d8;font-family:Arial;margin:10px
0;padding:0 10px;}#yiv6927211751 #yiv6927211751ygrp-mkp hr {border:1px solid
#d8d8d8;}#yiv6927211751 #yiv6927211751ygrp-mkp #yiv6927211751hd
{color:#628c2a;font-size:85%;font-weight:700;line-height:122%;margin:10px
0;}#yiv6927211751 #yiv6927211751ygrp-mkp #yiv6927211751ads
{margin-bottom:10px;}#yiv6927211751 #yiv6927211751ygrp-mkp .yiv6927211751ad {padding:0
0;}#yiv6927211751 #yiv6927211751ygrp-mkp .yiv6927211751ad p {margin:0;}#yiv6927211751

#yiv6927211751ygrp-mkp .yiv6927211751ad a
{color:#0000ff;text-decoration:none;}#yiv6927211751

thanks, I bought 5 of the 1881 chips and actually i think it was the 8200 i got but I could never make it work, I think I used a resistor too but am unsure that was last year. in the photo archives the pictures indicate soldering wires to the processor and such, also there using a 339 chip. could not find good instructions but would prefer not to have to modify the board and would like to use the 1881 chips.

The board pix is not mine,but think it is in the files section showing the 50 K resistors.

# 2549. Re: 8924 Power Supply (Green LED problem SOLVED)

Yahoo group: hp8924
Date: 2017-03-04 23:45:27 UTC
From: ob1kinobi1999@...
Topic: 257  Message: 2549

Just wanted to reply to this older thread.

IT WORKED!!!

seems I had this exact issue, the capacitor looked fine but it didnt work. I also had to use a 63volt that was larger and found I could mount it to the backside of the board easier as there isn't anything in the way.

So glad I joined this group, I would have never thought to check that circuit.saved me from buying another supply :)

# 2550. 8920 8924 E8285A replacement TFT display - realtek RTD2660 ??

Yahoo group: hp8924
Date: 2017-03-05 02:27:04 UTC
From: zl1cvd@...
Topic: 2550  Message: 2550

I see allot of people needing replacement screens for 8920, 8924 & E8285A. All these models have composite video out at HP's weird 15K or 19K sync rate = hard to find replacement. Many are using the GBS8200 or GBS8220 sync converts and TFT.

When you remove the crt from 892x or plasma from E8285A & 8935, these is enough room to mount a 5.6" ~ 7.0" TFT display.

I found Chinese chipset manufacturer RealTek makes a very common flat panel display controller IC RTD2660. This chip is field programmable to suit a wide range of TFT screen sizes and a brief check of the datasheet suggests it could be programmed to work directly with these (and other) HP's.

The problem is, you need a RTD2660 specific programmer and a good understanding of the chip registers.

What we need is someone who is familiar with RTD2660 to help out and perhaps program a bunch of standard TFT controller boards for the group. Example board is eBay item 152422170675.

# 2551. Re: 8924 Power Supply (Green LED problem SOLVED)

Yahoo group: hp8924
Date: 2017-03-05 04:06:33 UTC
From: ob1kinobi1999@...
Topic: 257  Message: 2551

OK new update, um something may be wrong, now it wont turn off, it reboots when i hit the power button but it wont stay off but a second, any ideas?

# 2552. Re: [hp8924] Re: Agilent E8285A CRT Died

Yahoo group: hp8924
Date: 2017-03-05 04:08:50 UTC
From: ob1kinobi1999@...
Topic: 2536  Message: 2552

thanks for the info, however I just tried that again and it didnt work. you can see the screen but its off to one side a bit and it has ghost images on right and bottom.

# 2553. Re: [hp8924] Re: Agilent E8285A CRT Died

Yahoo group: hp8924
Date: 2017-03-05 10:32:55 UTC
From: robert8rpi@...
Topic: 2536  Message: 2553

You have to set up and adjust the GBS82x0 via the menu for correct picture alignment.

Robert G8RPI

# 2554. Re: 8920 8924 E8285A replacement TFT display - realtek RTD2660 ??

Yahoo group: hp8924
Date: 2017-03-05 10:39:34 UTC
From: robert8rpi@...
Topic: 2550  Message: 2554

Nice idea,
you can get a board with a 2660 on ebay from ebay or Adafruit
https://learn.adafruit.com/hdmi-uberguide/rtd2660-hdmi-vga-ntsc-pal-driver-board
https://learn.adafruit.com/hdmi-uberguide/rtd2660-hdmi-vga-ntsc-pal-driver-board
a progrmmer here
https://github.com/ghent360/RTD-2660-Programmer
https://github.com/ghent360/RTD-2660-Programmer
and assuming you already know 8051 programming and have a complier or whatever your personal choice is, and underatand video formats you just have to read the 400 page data sheet
http://aitendo3.sakura.ne.jp/aitendo_data/product_img/lcd_controller/Xs/RTD2660.jsp.pdf
http://aitendo3.sakura.ne.jp/aitendo_data/product_img/lcd_controller/Xs/RTD2660.jsp.pdf
and knock up a few lines of code
Simples

Not for me. My solution is a GBS8220 driving a small VGA display (in-car type from ebay, probably uses the RTD2660). Will all fit in the space from the monitor and the seconf VGA output can drive an external display.

Robert G8RPI.

# 2555. Re: 8920 8924 E8285A replacement TFT display - realtek RTD2660 ??

Yahoo group: hp8924
Date: 2017-03-05 10:49:52 UTC
From: robert8rpi@...
Topic: 2550  Message: 2555

Oh,
I should have said, if doing it internally you don't need a sync sepator as the signals can be tpped off the A20 display driver board.

Robert

# 2556. CRT Problem

Yahoo group: hp8924
Date: 2017-03-05 16:29:27 UTC
From: Clif Holland
Topic: 2556  Message: 2556

I have an "XVGA Box" (Google search). It sells for abt $175-200. It is plug and play to an LCD monitor, I use an old 14" VGA one. Been running abt 3-4 yrs now. I needed a BNC T on the back of the service monitor and 2 BNC-BNC cables to the XVGA Box, a power supply and then plug in the VGA plug from the monitor.

Used on an HP 8920A

--

Clif Holland KA5IPF
www.avvid.com
214-850-0973

# 2557. Re: [hp8924] Re: Agilent E8285A CRT Died

Yahoo group: hp8924
Date: 2017-03-05 22:19:45 UTC
From: ob1kinobi1999@...
Topic: 2536  Message: 2557

I was just wondering if I missed something, the image that shows the 4 resistors locations also has a wire attached to the left of the processor. also in other pictures on the forum there using a pot tied to those and some other jumper wires to other parts of the board.

# 2558. Re: [hp8924] Re: Agilent E8285A CRT Died

Yahoo group: hp8924
Date: 2017-03-05 23:12:00 UTC
From: ob1kinobi1999@...
Topic: 2536  Message: 2558

never mind, i figured it out, it was a bit confusing, i have the H7V settings on the monitor and the 8200, and i was adjusting the monitor. but its working now.

is there a way to fix the contrast so that the cursor shows up better like it does on the 8924, its hard to see as it blends in with the items in the menus.

I have tried the saturation,brightness and contrast on the 8200 and the screen. would love to have a histogram one to modify it but that's unlikely.

# 2559. Re: [hp8924] Re: Agilent E8285A CRT Died

Yahoo group: hp8924
Date: 2017-03-05 23:22:54 UTC
From: Ralph Mowery
Topic: 2536  Message: 2559
Attachments: 1 described; binary payloads are missing from this source WARC

I think you are getting confused about the conversion as there are at least 2 ways of doing it.  One uses a different chip for the sync separation.  There is no pot in the  1881 sync separator conversion.  The only thing to be soldered on the board with the 1881 chip is the 4 resistors.  All other connections are made with the connectors on the board.  The parts I listed in another email are the only parts needed, not including a power supply.
I used a 12 volt wall cube going to the box I put it in.  Inside the box is one of the China bucking converters that converts the 12 volts from the wall cube to 5 volts.  That seemed to me as a simple way to get 5 volts from what I had at home.  The good thing about the China bucking converter is it is inexpensive, and acts similar to a transformer in that if you lower the output voltage, the current from the wall cube goes down.  That is if the wall cube is rated to put out 1 amp at 12 volts and you only need 5 volts , you can draw 2 amps or so at 5 volts and not overheat the wall cube. A 3 terminal regulator would require a wall cube of 2 amps for the same output voltage and current.
This is a pix of my conversion around the connector.  The red, yellow,and blue wires  are not used.  I just did not cut them off the connector.

From: "ob1kinobi1999@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Sunday, March 5, 2017 5:19 PM
Subject: Re: [hp8924] Re: Agilent E8285A CRT Died

<!--#yiv7101516738 #yiv7101516738 .yiv7101516738ygrp-photo-title{clear:both;font-size:smaller;height:15px;overflow:hidden;text-align:center;width:75px;}#yiv7101516738 div.yiv7101516738ygrp-photo{background-position:center;background-repeat:no-repeat;background-color:white;border:1px solid black;height:62px;width:62px;}#yiv7101516738 div.yiv7101516738photo-title a, #yiv7101516738 div.yiv7101516738photo-title a:active, #yiv7101516738 div.yiv7101516738photo-title a:hover, #yiv7101516738 div.yiv7101516738photo-title a:visited {text-decoration:none;}#yiv7101516738 div.yiv7101516738attach-table div.yiv7101516738attach-row {clear:both;}#yiv7101516738 div.yiv7101516738attach-table div.yiv7101516738attach-row div {float:left;}#yiv7101516738 p {clear:both;padding:15px 0 3px 0;overflow:hidden;}#yiv7101516738 div.yiv7101516738ygrp-file {width:30px;}#yiv7101516738 div.yiv7101516738attach-table div.yiv7101516738attach-row div div a {text-decoration:none;}#yiv7101516738 div.yiv7101516738attach-table div.yiv7101516738attach-row div div span {font-weight:normal;}#yiv7101516738 div.yiv7101516738ygrp-file-title {font-weight:bold;}#yiv7101516738 --> <!--#yiv7101516738 #yiv7101516738ygrp-mkp {border:1px solid #d8d8d8;font-family:Arial;margin:10px 0;padding:0 10px;}#yiv7101516738 #yiv7101516738ygrp-mkp hr {border:1px solid #d8d8d8;}#yiv7101516738 #yiv7101516738ygrp-mkp #yiv7101516738hd {color:#628c2a;font-size:85%;font-weight:700;line-height:122%;margin:10px 0;}#yiv7101516738 #yiv7101516738ygrp-mkp #yiv7101516738ads {margin-bottom:10px;}#yiv7101516738 #yiv7101516738ygrp-mkp .yiv7101516738ad {padding:0 0;}#yiv7101516738 #yiv7101516738ygrp-mkp .yiv7101516738ad p {margin:0;}#yiv7101516738 #yiv7101516738ygrp-mkp .yiv7101516738ad a {color:#0000ff;text-decoration:none;}-->

I was just wondering if I missed something, the image that shows the 4 resistors locations also has a wire attached to the left of the processor. also in other pictures on the forum there using a pot tied to those and some other jumper wires to other parts of the board.

# 2560. Re: [hp8924] Re: Agilent E8285A CRT Died

Yahoo group: hp8924
Date: 2017-03-05 23:28:44 UTC
From: ob1kinobi1999@...
Topic: 2536  Message: 2560

H7V was not high voltage, its a typo, it was supposed to be H&V for horizontal and vertical.

its working fine now, i was just adjusting the monitors settings and not the 8200.

I would like to find a way to adjust the brightness of just the cursor. I also connected my blue wire to green so i could display in blue.

# 2561. Re: Agilent E8285A CRT Died

Yahoo group: hp8924
Date: 2017-03-05 23:25:37 UTC
From: Frank Hughes
Topic: 2536  Message: 2561

Thanks, ordered a Sony DSC-1024HD to experiment with the composite output of my E8285A.It will be great to have this video option when the replacement (used) display panel goes dark. Again.
FrankKJ4OLL

# 2562. Re: 8924 Power Supply (Green LED problem SOLVED)

Yahoo group: hp8924
Date: 2017-03-05 23:30:20 UTC
From: ob1kinobi1999@...
Topic: 257  Message: 2562

anyone know why when i turn my switch to the off position the units continuously reboots, but on position works fine?

is the switch going bad or what?

# 2563. Re: Agilent E8285A CRT Died

Yahoo group: hp8924
Date: 2017-03-05 23:39:02 UTC
From: ob1kinobi1999@...
Topic: 2536  Message: 2563

if you have any problems let me know ill show you my setup, incidentally it would be good to have a "pr py rgb" cable that should go to a vga connector, its not a true "component" cable but I made a very nice cable for the 1024 unit by cutting off the red and blue rca connectors , then cutting off green and replacing it with a bnc, so you end up with a bnc to vga, which your 1024 works best with the vga input. I can also help you change your settings on the 1024 if needed.

# 2564. HP 8921A Power Supply

Yahoo group: hp8924
Date: 2017-03-08 03:24:43 UTC
From: clif@...
Topic: 2564  Message: 2564

I have an 8921A used as a backup for my 8920A. Last time I turned it on I enjoyed the fragrant aroma of leaking electrolytics. My guess is the power supply. Any thoughts or comments before I dive in. Waiting just makes the problem worse.

# 2565. Re: Agilent E8285A CRT Died

Yahoo group: hp8924
Date: 2017-03-08 23:21:37 UTC
From: ob1kinobi1999@...
Topic: 2536  Message: 2565
Attachments: 1 described; binary payloads are missing from this source WARC

OK I'm attaching a PDF file with instructions on how to use a SONY DSC-1024 with the HP Service Monitor 8924C

# 2566. Re: Agilent E8285A CRT Died

Yahoo group: hp8924
Date: 2017-03-08 23:21:33 UTC
From: ob1kinobi1999@...
Topic: 2536  Message: 2566

hey I posted it an my other thread and also uploaded the instructions in the Files area :)

# 2567. New file uploaded to hp8924

Yahoo group: hp8924
Date: 2017-03-08 23:20:30 UTC
From: hp8924@yahoogroups.com
Topic: 31  Message: 2567

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hp8924
group.

File : /Sony DSC-1024 to HP 8924C.pdf
Uploaded by : ob1kinobi1999 <ob1kinobi1999@...>
Description : 8924c to Sony DSC-1024 to Standard TV/LCD monitor

You can access this file at the URL:
https://groups.yahoo.com/neo/groups/hp8924/files/Sony%20DSC-1024%20to%20HP%208924C.pdf

To learn more about file sharing for your group, please visit:
https://help.yahoo.com/kb/index?page=content&y=PROD_GRPS&locale=en_US&id=SLN15398

Regards,

ob1kinobi1999 <ob1kinobi1999@...>

# 2568. Re: Agilent E8285A CRT Died

Yahoo group: hp8924
Date: 2017-03-09 20:10:25 UTC
From: kk4wh@...
Topic: 2536  Message: 2568

The Sony DSC-1024G seems like the way for me to go. Does the Sony just take it's feed from the rear connector on the HP E8285A or is there anything that the service monitor needs to be opened for? Another question is about the guy that sold new displays, one of the comments below says that the usual problem is with dried out or bad capacitors on the display unit. Would me buying a new display also replace these caps or is it just a basic display with no caps or other components on it? The reason I ask is that I've had several Strokes in the last 3years, these have just about wiped out my right side so I can no longer do a lot of the fine motor stuff. Thank you for your time and I hope I can return the favor some day soon.

Tim
kk4wh@yahoo.com

# 2569. Re: Agilent E8285A CRT Died

Yahoo group: hp8924
Date: 2017-03-09 23:35:20 UTC
From: Frank Hughes
Topic: 2536  Message: 2569

Composite output from E8285A into Sony DSC 1024HD, w/ SVGA connection to monitor, works great!Thanks ob1kinobi1999 !!!!
e8285a_sony_svga

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| | |

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| |
e8285a_sony_svga
Using E8285A "Composite video out" to drive Sony DSC 1024HD converter, output to standard PC monitor w... | |

|

|

# 2570. Re: Agilent E8285A CRT Died

Yahoo group: hp8924
Date: 2017-03-10 02:29:43 UTC
From: ob1kinobi1999@...
Topic: 2536  Message: 2570

the sony will get its signal from the composite out on the back of the service monitor.

the replacement monitor I got was completely new with frame and new circuit board. its basically a drop in unit.

# 2571. Re: Agilent E8285A CRT Died

Yahoo group: hp8924
Date: 2017-03-10 02:40:16 UTC
From: ob1kinobi1999@...
Topic: 2536  Message: 2571

great glad to hear it. my next project is to see if I can get my oscilloscope open and grab the signal off the monitor and route it to a external jack that I will try to find a place install. Its a HP 500Mhz digital storage scope with the older CRT. the CRT has a bit of screen burn, but I would love it if it has the same signal, as I could just put a A/B switch on the Composite lines to swap between them.

I have designed a new board to augment the GBS-8200, it has the sync separator on it, but also adds some simple red,green,blue adjustment knobs so you can define other colors, bright or dark. Green is ok, but it gets boring. Also it allows you to adjust the intensity so its not so blurry. also it fixes the output level of the 1881 so you can set the max output voltage of the new sync signal, Ive got mine set for 1.25 volts, I could go up to 3.3 but its working great.

# 2572. Re: Agilent E8285A CRT Died

Yahoo group: hp8924
Date: 2017-03-10 12:54:13 UTC
From: Frank Hughes
Topic: 2536 Message: 2572

Hi Tim,Both Rick @ Amtronix and Chris Day (another E8285A expert) told me that about 10%of the displays can be repaired, as they are not designed in a way that allows many of the electrolytic the caps to be replaced.I bought a used replacement from Rick (might have paid $250? can't remember).
But the Sony converter thing works so well, and costs so little, I am no longer concerned withthe remaining life in the original E8285A display. I'll use it until it goes dark, then switch to the PC SVGA monitor.73FrankKJ4OLL

# 2573. Re: [hp8924] Re: Agilent E8285A CRT Died

Yahoo group: hp8924
Date: 2017-03-10 14:40:17 UTC
From: Ted Leonard
Topic: 2536  Message: 2573

I have seen some reply's mentioning a Sony converter for using on the HPs But can't find an original post mentioning the info about the Sony converter, model etc.

I have an 8920 the display on is fine but my old eyes would really appreciate a larger screen. Not sure if the scan rate on the E8285A is the same as my 8920 which is a CRT display??

Thanks, Ted W3VG

On 3/10/2017 7:54 AM, Frank Hughes hp_ciscovss@... [hp8924] wrote:
> Hi Tim,
> Both Rick @ Amtronix and Chris Day (another E8285A expert) told me
> that about 10%
> of the displays can be repaired, as they are not designed in a way
> that allows many of the electrolytic the caps to be replaced.
> I bought a used replacement from Rick (might have paid $250? can't
> remember).
>
> But the Sony converter thing works so well, and costs so little, I am
> no longer concerned with
> the remaining life in the original E8285A display.
> I'll use it until it goes dark, then switch to the PC SVGA monitor.
> 73
> Frank
> KJ4OLL
>

# 2574. Re: [hp8924] Re: Agilent E8285A CRT Died

Yahoo group: hp8924
Date: 2017-03-10 15:49:05 UTC
From: ob1kinobi1999@...
Topic: 2536  Message: 2574

its a Sony DSC-1024G, there is a PDF file in the Files section, you can google it or look at the pictures in the PDF.

there are 3 Flavors of the unit, 1024, 1024G, 1024HD all that's really different is the connections available on the back, the one that's in the PDF and that I have is the 1024G, the one Frank ordered is a HD. he might be willing to post some good clean pictures of the rear ports, I cant seem to find any good ones online. The G or the HD will work. The one without a G or HD, does not work with VGA to my understanding.

# 2575. Re: [hp8924] Re: Agilent E8285A CRT Died

Yahoo group: hp8924
Date: 2017-03-14 19:22:02 UTC
From: kk4wh@...
Topic: 2536  Message: 2575

I have the HD model on the way. Very excited to get it hooked up to the E8285A and working.

Thanks for all of the help

Tim - KK4WH

# 2576. Re: HP 8921A Power Supply

Yahoo group: hp8924
Date: 2017-04-05 13:19:09 UTC
From: jyelmgren@...
Topic: 2564  Message: 2576

re-cap the power supply ASAP.

waiting will just cause more damage to the PCB.

# 2577. power switch faulty

Yahoo group: hp8924
Date: 2017-04-08 18:14:32 UTC
From: ob1kinobi1999@...
Topic: 2577  Message: 2577

It seems my power switch is not working correctly. Even with it in the off position the unit will randomly turn on and off. In the on position it works fine. Its my understanding that this is a reverse switch so in the off position the contacts are closed. If this is true then it seems that I may have dirty contacts? worn contacts? or perhaps there is a physical damage to the closed contact side?
I am not sure, I have not opened the case up and pulled the switch out to look at it. That's a project that I will have to disassemble the unit quite a bit I believe, and if I have to replace the switch, I don't want to leave it open while I wait for a part. So, does anyone have a reference or link to where I can order a replacement switch. Or has anyone else ran into this same issue? I don't wish to replace it with a switch that does not fit the original hole, and would prefer an original part. That is if I cannot fix this one.

# 2578. Connecting a VGA monitor to the internal video connector J6

Yahoo group: hp8924
Date: 2017-04-13 17:21:06 UTC
From: alexschwarz237@...
Topic: 2578  Message: 2578

Hi Everybody;

I want to extend the internal video to an external VGA monitor. I have checked the inputs of the VGA port on the monitor and they require Video, Hsync and Vsync which is provided by this plug usually for the internal monitor.
When I look at the signals on an oscilloscope the signals look good, but when I connect it to a VGA monitor the message that I get is "Input out of Range 19.2kHz".

Does anyone have any ideas why this is not working and how to solve this?

Any reply would be appreciated;

Alex

# 2579. Re: [hp8924] Connecting a VGA monitor to the internal video connector J6

Yahoo group: hp8924
Date: 2017-04-13 17:35:01 UTC
From: Robert Atkinson
Topic: 2578  Message: 2579

Hi Alex,This is because the HP video uses  a non-standard 19.2kHz line frequency. Standard VGA is 31.469 kHz. Addtionally you should not extend the internal signals as they are not designed to drive long cables or two loads.The established method is to connect to the external video connector and use a video converter such as the GBS8200 designs or Sony converter. Plenty of threads in the group on these.
Robert G8RPI.

From: "alexschwarz237@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Thursday, 13 April 2017, 18:21
Subject: [hp8924] Connecting a VGA monitor to the internal video connector J6

  Hi Everybody;

I want to extend the internal video to an external VGA monitor. I have checked the inputs of the VGA port on the monitor and they require Video, Hsync and Vsync which is provided by this plug usually for the internal monitor.
When I look at the signals on an oscilloscope the signals look good, but when I connect it to a VGA monitor the message that I get is "Input out of Range 19.2kHz".

Does anyone have any ideas why this is not working and how to solve this?

Any reply would be appreciated;

Alex

# 2580. Re: [hp8924] Connecting a VGA monitor to the internal video connector J6

Yahoo group: hp8924
Date: 2017-04-14 14:51:03 UTC
From: alexschwarz237@...
Topic: 2578  Message: 2580
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Robert and Everyone;

Thank you very much for getting back to me and indeed a lot of work has been done to get the incompatible video output converted to VGA.
I also see that a lot of people struggle with getting the video display stable and they use a LM1881 to extract the HSync and the Vsync signal. Both signals are are available internally and are produced by the video CRT drive assembly. There is no need for the additional LM1881 chip (see attached image)
If anyone wants to replace the CRT with a LCD it looks like the GBS8200 is the way to go, but the addition of the LM1881 makes the conversion cumbersome. I can understand that someone is hesitant to open the lid to get the signals needed for the conversion but the price of the GBS is $22 versus some other units that cost the $200 +.

I will keep you posted on the progress on the conversion of my HP 8921.

Thanks again and have a great day;

Alex

# 2581. Re: [hp8924] Connecting a VGA monitor to the internal video connector J6

Yahoo group: hp8924
Date: 2017-04-15 04:05:19 UTC
From: alexschwarz237@...
Topic: 2578  Message: 2581

Hi Everybody;

Another thing that I forgot:
IntHigh, IntW and IntLow represents a simulated trimmer that changes values according to the brightness setting in the HP software.
If you have a LCB display that has a contrast pot you can remove the pot and connect the three signals accordingly and then control the contrast with the brightness setting in the HP setup.

All the best and thank you for this group;

Alex

# 2582. New file uploaded to hp8924

Yahoo group: hp8924
Date: 2017-04-20 00:06:07 UTC
From: hp8924@yahoogroups.com
Topic: 31  Message: 2582

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hp8924
group.

File : /E8285A/E8285A Down-converter Calibration Chip Install Notes.pdf
Uploaded by : c_day_nz <zl1cvd@...>
Description : How to install new down-converter calibration chip.

You can access this file at the URL:
https://groups.yahoo.com/neo/groups/hp8924/files/E8285A/E8285A%20Down-converter%20Calibration%20Chip%20Install%20Notes.pdf

To learn more about file sharing for your group, please visit:
https://help.yahoo.com/kb/index?page=content&y=PROD_GRPS&locale=en_US&id=SLN15398

Regards,

c_day_nz <zl1cvd@...>

# 2583. New file uploaded to hp8924

Yahoo group: hp8924
Date: 2017-04-20 00:08:00 UTC
From: hp8924@yahoogroups.com
Topic: 31  Message: 2583

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hp8924
group.

File : /E8285A/E8285A V2.04 Firmware Notes.pdf
Uploaded by : c_day_nz <zl1cvd@...>
Description : v2.04 firmware makes wide band (400kHz to 1GHz & 1.7GHz to 2.0GHz) + adds SSB & AM modes

You can access this file at the URL:
https://groups.yahoo.com/neo/groups/hp8924/files/E8285A/E8285A%20V2.04%20Firmware%20Notes.pdf

To learn more about file sharing for your group, please visit:
https://help.yahoo.com/kb/index?page=content&y=PROD_GRPS&locale=en_US&id=SLN15398

Regards,

c_day_nz <zl1cvd@...>

# 2584. New file uploaded to hp8924

Yahoo group: hp8924
Date: 2017-04-20 00:44:44 UTC
From: hp8924@yahoogroups.com
Topic: 31  Message: 2584

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hp8924
group.

File : /E8285A/11807-90141-RF Tools.pdf
Uploaded by : c_day_nz <zl1cvd@...>
Description : HP 11807A,E Option 100 System Support Tests User’s Guide for the HP 8920A, HP 8920B, HP 8921A, 8924C/E, E8285A & 8935 (E6380A, E6381A)

You can access this file at the URL:
https://groups.yahoo.com/neo/groups/hp8924/files/E8285A/11807-90141-RF%20Tools.pdf

To learn more about file sharing for your group, please visit:
https://help.yahoo.com/kb/index?page=content&y=PROD_GRPS&locale=en_US&id=SLN15398

Regards,

c_day_nz <zl1cvd@...>

# 2585. New file uploaded to hp8924

Yahoo group: hp8924
Date: 2017-04-20 00:45:09 UTC
From: hp8924@yahoogroups.com
Topic: 31  Message: 2585

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the hp8924
group.

File : /E8285A/RF Tools.pdf
Uploaded by : c_day_nz <zl1cvd@...>
Description : PCMCIA card containing RF tools

You can access this file at the URL:
https://groups.yahoo.com/neo/groups/hp8924/files/E8285A/RF%20Tools.pdf

To learn more about file sharing for your group, please visit:
https://help.yahoo.com/kb/index?page=content&y=PROD_GRPS&locale=en_US&id=SLN15398

Regards,

c_day_nz <zl1cvd@...>

# 2586. Thanks!

Yahoo group: hp8924
Date: 2017-06-08 03:56:58 UTC
From: sleander@...
Topic: 2586  Message: 2586

A week ago I tried to power up my trusty HP 8924C, but no dice - dead. Following the "Repairing the 8924 Power Supply" I was able to "kick-start" the supply and confirm the problem (15V standby supply). So, I ordered up some caps from Mouser, replaced them, and it's alive again! Thanks!

While I was in there, I also replaced the main HV supply caps (1200uF/200V with 1500uF/200V) and the other cap on the daughter board (33uF/25V), both with 105C versions. I suspect the heat from the heat-sinked transistor helped in it's death... I also put the 47uF/50V in on the other side of the board to get it away from that heat source.

Just ran it thru a PCB_CAL, all passed...

Steve
KV6O

# 2587. No output from about 250 to 260 MHz

Yahoo group: hp8924
Date: 2017-08-13 14:53:09 UTC
From: ku4pt@...
Topic: 2587  Message: 2587

I have a 8924c I bought for spare parts along with a working unit several years ago. The spare unit was missing the power supply. I obtained a rebuilt supply and the 8924c seems to be working fine except for one thing.

From about 250 to 260 MHz there is no output from the signal generator. It seems to check out ok otherwise.
Any idea what module or where to look for a failed output for such a narrow range of frequencies ?

I have verified this by doing a sweep using the spectrum analyzer and tracking generator in the unit plus looking at the output on another service monitor.

I started to swap a few modules from the other unit,but hate to undo those 'thousand' screws to get the case open.

# 2588. Re: [hp8924] No output from about 250 to 260 MHz

Yahoo group: hp8924
Date: 2017-08-13 15:04:31 UTC
From: Robert Atkinson
Topic: 2587  Message: 2588

Hi,I bit more detailed fault description would be useful.
Have you tried different output levels? Does the output drop instantly at a frequency or fade away?If it drops suddenly, exacly what frequencies does it stop and start working? Are they consistent?
Robert G8RPI.

From: "ku4pt@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Sunday, 13 August 2017, 15:53
Subject: [hp8924] No output from about 250 to 260 MHz

I have a 8924c I bought for spare parts along with a working unit several years ago. The spare unit was missing the power supply. I obtained a rebuilt supply and the 8924c seems to be working fine except for one thing.
From about 250 to 260 MHz there is no output from the signal generator. It seems to check out ok otherwise.Any idea what module or where to look for a failed output for such a narrow range of frequencies ?
I have verified this by doing a sweep using the spectrum analyzer and tracking generator in the unit plus looking at the output on another service monitor.
I started to swap a few modules from the other unit,but hate to undo those 'thousand' screws to get the case open.

# 2589. Re: [hp8924] No output from about 250 to 260 MHz

Yahoo group: hp8924
Date: 2017-08-13 16:04:29 UTC
From: Ralph Mowery
Topic: 2587  Message: 2589
Attachments: 1 described; binary payloads are missing from this source WARC

Thanks for the reply Robert.
I tried many output levels and switching from the RF IN/OUT and Duplex out ports .  That does not make any difference.
At exectally 249 MHz on the screen the output is fine.  Go up one Hz and it instantly drops to no output.
On the high side about 272.826 it drops out all the way.  For about 100 kHZ  below  that looking at it with a IFR 1200S on the SA there starts to form a lot of spikes all over the screen which is 10 MHz wide on the IFR .
I attached a photo of the IFR screen set for a 1 MHz spread so you can see the spikes.  It does not do that on the 249 MHz frequency,but just drops to no output.
I checked and both audio generators are off so it should just be a pure carrier.  The set is set up to generate in the FM mode.
The 449 MHz plus 1 Hz is very consistent.  Hard to tell on the high end as it generates all those 'spikes' as seen  in the pix.
73 de KU4PT

From: "Robert Atkinson robert8rpi@... [hp8924]" <hp8924@yahoogroups.com>
To: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
Sent: Sunday, August 13, 2017 11:04 AM
Subject: Re: [hp8924] No output from about 250 to 260 MHz

# 2590. Re: No output from about 250 to 260 MHz

Yahoo group: hp8924
Date: 2017-08-13 18:18:55 UTC
From: wb4yjt@...
Topic: 2587  Message: 2590

It's almost certainly the A-26 Board.

Try swapping that one.

# 2591. Re: [hp8924] No output from about 250 to 260 MHz [1 Attachment]

Yahoo group: hp8924
Date: 2017-08-13 18:43:49 UTC
From: Robert Atkinson
Topic: 2587  Message: 2591
Attachments: 2 described; binary payloads are missing from this source WARC

Hi Ralph,The basic RF generatior in the 8924 is 500MHz to 1000MHz. The lower bands are obtained by division or mixing. For 250MHz to 500MHz the base frequency is divided by two. The mixing or division is carried out by the A26 output assembly. From your description of the fault it looks like the divideder is not operating at the bottom end. I'd supect faulty decoupling capacitor(s) on A26.
(from Assy level repair manual).This is basically the same design as the 8920B A13 Synth module. Looking t the 820 CLIP may give some clues. It uses a UPB584G

I'd suspect C103/C104 or U101 but you will have to trace out the identifiers for the A26 module.
HTH,Robert G8RPI.

From: "Ralph Mowery ku4pt@... [hp8924]" <hp8924@yahoogroups.com>
To: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
Sent: Sunday, 13 August 2017, 17:04
Subject: Re: [hp8924] No output from about 250 to 260 MHz [1 Attachment]

[Attachment(s) from Ralph Mowery included below] Thanks for the reply Robert.
I tried many output levels and switching from the RF IN/OUT and Duplex out ports .  That does not make any difference.
At exectally 249 MHz on the screen the output is fine.  Go up one Hz and it instantly drops to no output.
On the high side about 272.826 it drops out all the way.  For about 100 kHZ  below  that looking at it with a IFR 1200S on the SA there starts to form a lot of spikes all over the screen which is 10 MHz wide on the IFR .
I attached a photo of the IFR screen set for a 1 MHz spread so you can see the spikes.  It does not do that on the 249 MHz frequency,but just drops to no output.
I checked and both audio generators are off so it should just be a pure carrier.  The set is set up to generate in the FM mode.
The 449 MHz plus 1 Hz is very consistent.  Hard to tell on the high end as it generates all those 'spikes' as seen  in the pix.
73 de KU4PT

From: "Robert Atkinson robert8rpi@... [hp8924]" <hp8924@yahoogroups.com>
To: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
Sent: Sunday, August 13, 2017 11:04 AM
Subject: Re: [hp8924] No output from about 250 to 260 MHz

Hi,I bit more detailed fault description would be useful.
Have you tried different output levels? Does the output drop instantly at a frequency or fade away?If it drops suddenly, exacly what frequencies does it stop and start working? Are they consistent?
Robert G8RPI.

# 2592. Re: [hp8924] No output from about 250 to 260 MHz [2 Attachments]

Yahoo group: hp8924
Date: 2017-08-13 20:50:03 UTC
From: Ralph Mowery
Topic: 2587  Message: 2592

Thanks Robert and WB4YJT.
I removed the 'thousand screws' and swapped the working A26 board with the one that did not fully work.  That seemed to solve the problem.
Now to find the components Robert listed.  I do have  a good stereo microscope and hot air rework station so I should be able to do the work.
I did run the internal diaganostics and it mentioned something about an input board, but that did not seem correct to me.  It was probably fooled as it takes a cable from the input to the output port to complete the connection.

73

From: "Robert Atkinson robert8rpi@... [hp8924]" <hp8924@yahoogroups.com>
To: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
Sent: Sunday, August 13, 2017 2:44 PM
Subject: Re: [hp8924] No output from about 250 to 260 MHz [2 Attachments]

# 2593. Re: [hp8924] No output from about 250 to 260 MHz [2 Attachments]

Yahoo group: hp8924
Date: 2017-08-13 21:07:50 UTC
From: wb4yjt@...
Topic: 2587  Message: 2593

The schematic of the 8924 A26 is the same as the 8920 A13 - which you can find in the Files section.

Look in the divide-by-two chain on the board.

Good luck!

# 2594. Re: [hp8924] No output from about 250 to 260 MHz

Yahoo group: hp8924
Date: 2017-08-13 22:10:08 UTC
From: Ralph Mowery
Topic: 2587  Message: 2594

Thanks, I think I have the files downloaded somewhere here.
I knew that much of the 8920 was like the 8924, but not sure what all is.  I did play around with a 8920 a friend had enough to see how it worked.  I have had an 8924c for 6 or 7 years.  A couple of years ago I got a chance to get another one that worked and one for parts.  The parts unit was missing the power supply.  I had swapped them for a test a while back and the parts unit seemed to work. It was just when I got a  power supply for it that I gave it a good going through and found the area around 460 MHz did not have any output.
I guess this will be a shotgun approach as it looks like it would take some extender cables to get the boards to where I could even try to test them.  Robert  gave me a couple of things to look at first.
I am not good with digital circuits, but can usually do RF and audio.
73

From: "wb4yjt@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Sunday, August 13, 2017 5:07 PM
Subject: Re: [hp8924] No output from about 250 to 260 MHz

#yiv3096105123 #yiv3096105123 -- #yiv3096105123 .yiv3096105123ygrp-photo-title{clear:both;
font-size:smaller;min-height:15px;overflow:hidden;text-align:center;width:75px;}#yiv309610
5123 div.yiv3096105123ygrp-photo{background-position:center;background-repeat:no-repeat;ba
ckground-color:white;border:1px solid black;min-height:62px;width:62px;}#yiv3096105123
div.yiv3096105123photo-title a, #yiv3096105123 div.yiv3096105123photo-title a:active,
#yiv3096105123 div.yiv3096105123photo-title a:hover, #yiv3096105123
div.yiv3096105123photo-title a:visited {text-decoration:none;}#yiv3096105123
div.yiv3096105123attach-table div.yiv3096105123attach-row {clear:both;}#yiv3096105123
div.yiv3096105123attach-table div.yiv3096105123attach-row div {float:left;}#yiv3096105123
p {clear:both;padding:15px 0 3px 0;overflow:hidden;}#yiv3096105123
div.yiv3096105123ygrp-file {width:30px;}#yiv3096105123 div.yiv3096105123attach-table
div.yiv3096105123attach-row div div a {text-decoration:none;}#yiv3096105123
div.yiv3096105123attach-table div.yiv3096105123attach-row div div span
{font-weight:normal;}#yiv3096105123 div.yiv3096105123ygrp-file-title
{font-weight:bold;}#yiv3096105123 #yiv3096105123 #yiv3096105123 #yiv3096105123
--#yiv3096105123ygrp-mkp {border:1px solid #d8d8d8;font-family:Arial;margin:10px
0;padding:0 10px;}#yiv3096105123 #yiv3096105123ygrp-mkp hr {border:1px solid
#d8d8d8;}#yiv3096105123 #yiv3096105123ygrp-mkp #yiv3096105123hd
{color:#628c2a;font-size:85%;font-weight:700;line-height:122%;margin:10px
0;}#yiv3096105123 #yiv3096105123ygrp-mkp #yiv3096105123ads
{margin-bottom:10px;}#yiv3096105123 #yiv3096105123ygrp-mkp .yiv3096105123ad {padding:0
0;}#yiv3096105123 #yiv3096105123ygrp-mkp .yiv3096105123ad p {margin:0;}#yiv3096105123
#yiv3096105123ygrp-mkp .yiv3096105123ad a
{color:#0000ff;text-decoration:none;}#yiv3096105123

The schematic of the 8924 A26 is the same as the 8920 A13 - which you can find in the Files section.

Look in the divide-by-two chain on the board.

Good luck!

–

# 2595. Re: [hp8924] No output from about 250 to 260 MHz

Yahoo group: hp8924
Date: 2017-08-13 23:25:00 UTC
From: wb4yjt@...
Topic: 2587  Message: 2595

The divide-by-two circuit is the only digital element.

You could attach a wire to the input, and to the output, and check that the output signal is half the frequency of the input.

Or just replace it - it's the most likely suspect.

J.

# 2596. Re: [hp8924] No output from about 250 to 260 MHz

Yahoo group: hp8924
Date: 2017-08-14 01:15:39 UTC
From: Ralph Mowery
Topic: 2587  Message: 2596

Thanks, I tried that using a 200 MHz storage scope.  I never could get anything but a bunch of real junk looking stuff on the scope on either the in or out.  I did see the level change when I went to DC as I passed the low end near 249 MHz.
If  I can find one, I will get replace it and the capacitors Robert mentioned.  Most likely the IC will not cost enough to make an order.
73

From: "wb4yjt@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Sunday, August 13, 2017 7:26 PM
Subject: Re: [hp8924] No output from about 250 to 260 MHz

#yiv5980681731 #yiv5980681731 -- #yiv5980681731 .yiv5980681731ygrp-photo-title{clear:both;font-size:smaller;min-height:15px;overflow:hidden;text-align:center;width:75px;}#yiv5980681731 div.yiv5980681731ygrp-photo{background-position:center;background-repeat:no-repeat;background-color:white;border:1px solid black;min-height:62px;width:62px;}#yiv5980681731 div.yiv5980681731photo-title a, #yiv5980681731 div.yiv5980681731photo-title a:active, #yiv5980681731 div.yiv5980681731photo-title a:hover, #yiv5980681731 div.yiv5980681731photo-title a:visited {text-decoration:none;}#yiv5980681731 div.yiv5980681731attach-table div.yiv5980681731attach-row {clear:both;}#yiv5980681731 div.yiv5980681731attach-table div.yiv5980681731attach-row div {float:left;}#yiv5980681731 p {clear:both;padding:15px 0 3px 0;overflow:hidden;}#yiv5980681731 div.yiv5980681731ygrp-file {width:30px;}#yiv5980681731 div.yiv5980681731attach-table div.yiv5980681731attach-row div div a {text-decoration:none;}#yiv5980681731 div.yiv5980681731attach-table div.yiv5980681731attach-row div div span {font-weight:normal;}#yiv5980681731 div.yiv5980681731ygrp-file-title {font-weight:bold;}#yiv5980681731 #yiv5980681731 #yiv5980681731 #yiv5980681731 --#yiv5980681731ygrp-mkp {border:1px solid #d8d8d8;font-family:Arial;margin:10px 0;padding:0 10px;}#yiv5980681731 #yiv5980681731ygrp-mkp hr {border:1px solid #d8d8d8;}#yiv5980681731 #yiv5980681731ygrp-mkp #yiv5980681731hd {color:#628c2a;font-size:85%;font-weight:700;line-height:122%;margin:10px 0;}#yiv5980681731 #yiv5980681731ygrp-mkp #yiv5980681731ads {margin-bottom:10px;}#yiv5980681731 #yiv5980681731ygrp-mkp .yiv5980681731ad {padding:0 0;}#yiv5980681731 #yiv5980681731ygrp-mkp .yiv5980681731ad p {margin:0;}#yiv5980681731 #yiv5980681731ygrp-mkp .yiv5980681731ad a {color:#0000ff;text-decoration:none;}#yiv5980681731

The divide-by-two circuit is the only digital element.

You could attach a wire to the input, and to the output, and check that the output signal is half the frequency of the input.

Or just replace it - it's the most likely suspect.

J.

# 2597. Re: [hp8924] No output from about 250 to 260 MHz

Yahoo group: hp8924
Date: 2017-08-14 04:16:56 UTC
From: wb4yjt@...
Topic: 2587  Message: 2597

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eBay item number:
400015667421
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# 2598. Re: [hp8924] No output from about 250 to 260 MHz

Yahoo group: hp8924
Date: 2017-08-14 06:21:28 UTC
From: Robert Atkinson
Topic: 2587  Message: 2598

I'd still check the decoupling capacitors first. It's unusual for a divider to be faulty at the low end but OK at the high. the smaller capacitor (470pf ? I don't have the CLIP to hand) by passes the unused side of the dividers differential input to ground. If it is low or  open circuit, stray capacitance may be enough at the higher end but not at the low.
Robert G8RPI.

From: "wb4yjt@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Monday, 14 August 2017, 5:16
Subject: Re: [hp8924] No output from about 250 to 260 MHz

  eBay item number:400015667421

# 2599. Re: [hp8924] No output from about 250 to 260 MHz

Yahoo group: hp8924
Date: 2017-08-14 11:50:34 UTC
From: Ralph Mowery
Topic: 2587  Message: 2599

Thanks, I put some on order.
Robert I also ordered some capacitors so I will probably replace them at the same time while I have everything apart and set up on the work bench.
I did run a couple of wires out from the IC and could not find a signal on the 200 MHz oscilloscope.  I think the reason is I was expecting  a 5 volt digital signal , but when I got a chance to look over the circuit I see it is a very low level analog signal.The scope probably would not see that low of level and the capacitance of the wires would probably really effect any signal that was there.  It may also not go high enough in frequency to see it.  Wish I had checked it with the working 8923c by looking at it with the SA before I unhooked the wires.
Really interesting as to how it can just affect a narrow band of signals over about a 20 MHz spread.
73

From: "wb4yjt@gmail.com [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Monday, August 14, 2017 12:16 AM
Subject: Re: [hp8924] No output from about 250 to 260 MHz

#yiv0565199233 #yiv0565199233 -- #yiv0565199233 .yiv0565199233ygrp-photo-title{clear:both;
font-size:smaller;min-height:15px;overflow:hidden;text-align:center;width:75px;}#yiv056519
9233 div.yiv0565199233ygrp-photo{background-position:center;background-repeat:no-repeat;ba
ckground-color:white;border:1px solid black;min-height:62px;width:62px;}#yiv0565199233
div.yiv0565199233photo-title a, #yiv0565199233 div.yiv0565199233photo-title a:active,
#yiv0565199233 div.yiv0565199233photo-title a:hover, #yiv0565199233
div.yiv0565199233photo-title a:visited {text-decoration:none;}#yiv0565199233
div.yiv0565199233attach-table div.yiv0565199233attach-row {clear:both;}#yiv0565199233
div.yiv0565199233attach-table div.yiv0565199233attach-row div {float:left;}#yiv0565199233
p {clear:both;padding:15px 0 3px 0;overflow:hidden;}#yiv0565199233
div.yiv0565199233ygrp-file {width:30px;}#yiv0565199233 div.yiv0565199233attach-table
div.yiv0565199233attach-row div div a {text-decoration:none;}#yiv0565199233
div.yiv0565199233attach-table div.yiv0565199233attach-row div div span
{font-weight:normal;}#yiv0565199233 div.yiv0565199233ygrp-file-title
{font-weight:bold;}#yiv0565199233 #yiv0565199233 #yiv0565199233 #yiv0565199233
--#yiv0565199233ygrp-mkp {border:1px solid #d8d8d8;font-family:Arial;margin:10px
0;padding:0 10px;}#yiv0565199233 #yiv0565199233ygrp-mkp hr {border:1px solid
#d8d8d8;}#yiv0565199233 #yiv0565199233ygrp-mkp #yiv0565199233hd
{color:#628c2a;font-size:85%;font-weight:700;line-height:122%;margin:10px
0;}#yiv0565199233 #yiv0565199233ygrp-mkp #yiv0565199233ads
{margin-bottom:10px;}#yiv0565199233 #yiv0565199233ygrp-mkp .yiv0565199233ad {padding:0
0;}#yiv0565199233 #yiv0565199233ygrp-mkp .yiv0565199233ad p {margin:0;}#yiv0565199233
#yiv0565199233ygrp-mkp .yiv0565199233ad a
{color:#0000ff;text-decoration:none;}#yiv0565199233

eBay item number:400015667421

# 2600. Re: No output from about 250 to 260 MHz

Yahoo group: hp8924
Date: 2017-08-15 01:49:01 UTC
From: Clif Holland
Topic: 2587  Message: 2600

I haven't looked at the CLIP nor worked on one. But the description of what it's doing describes a PLL loop frequency/divide by step change (drop out at an exact freq) and then further up a picket fence which describes a PLL trying to lock and finally achieving lock at abt 260.

FWIW

--

Clif Holland KA5IPF
www.avvid.com
214-850-0973

# 2601. Re: No output from about 250 to 260 MHz

Yahoo group: hp8924
Date: 2017-08-15 03:11:54 UTC
From: wb4yjt@...
Topic: 2587  Message: 2601

Clif -

In this unit, there is a PLL that covers 500-1000 MHz.
The 250-500 MHz range is covered with a divide-by-two IC fed by the PLL.

Since the 500-1000 range is OK, the divider is suspected.

# 2602. HP8920B Auto Tune

Yahoo group: hp8924
Date: 2017-08-15 03:15:07 UTC
From: rhyolite@...
Topic: 2602  Message: 2602

I am using my 8920B in the RF Analyzer's auto tune mode for the first time and I have noticed it is selecting a frequency exactly 5 or 10 KHz below the actual operating frequency of the DUT.

The frequency measurement window seems right on (there is no issue of the test set being off frequency) and my measurements seem to be OK but it is disconcerting that when I look at the field it is in error so much. And it is always by an even 10 KHz. So I tried changing the increment values for the field and they seem to affect only manual dial entry.

Weirdly, I have just discovered that if I change to the Antenna IN instead of the RF/IN, the behavior is normal.

The way I am set up requires the RF/IN port so I can measure power as well as the deviation measurements, which there are 10 across 30 MHz band.

Doing this work manually will be a PITA.

I will add that when doing the actual test, I am modulating 1000 Hz or 20 Hz tones at just below maximum deviation.

When testing from the antenna, I am either modulating 12 Kbps CVSD at 80% system deviation or CTCSS tone at low level.

The test set is set for DC coupling , <20 Hz HPF and 99 KHz LPF to make these specific measurements.

I am not sure I am creating the same situation when using the Antenna IN, but, I do need auto-tune to settle on the carrier center when doing the 1000 and 20 Hz deviation tests.

# 2603. Re: No output from about 250 to 260 MHz

Yahoo group: hp8924
Date: 2017-08-15 03:27:29 UTC
From: rhyolite@...
Topic: 2587  Message: 2603

I have my test set programmed with a test that is basically a tracking mode that covers the entire band of the instrument and I plug jumper on when I turn the instrument on to see that the tracking is more or less flat.

I was initially concerned when I found dead spots at about 350 and 700 MHz when I next turned the instrument on. After some head scratching I read that the 8920B requires a 20 minute warm up.

Whenever it is turned on for a short time, just minutes, the VCO and PLL settle in and it is fine. It hasn't given me any trouble after a warm up. If your problem is at cold start, I would let it settle in.

It could be a VCO steering line voltage slightly out of spec.

# 2604. Re: No output from about 250 to 260 MHz

Yahoo group: hp8924
Date: 2017-08-16 17:08:42 UTC
From: ku4pt@...
Topic: 2587  Message: 2604

I have let it warm up for a long time, but no effect. I have 3 of the 8924c units now. Two work fine and do not need any warmup so to speak of. Takes about 3 to 5 minutes for the frequency to get close and that is all.. It is the 3 rd one that gives problems over just a narrow range from about 240 to 270 MHz.

The parts for the output module came in and I replaced them. That did not cure the problem.

I then switched the output modules from a working unit and the problem unit. The working unit stilled worked,but the problem unit still had the output problem, so I do not think it is in the output module.

I ran the RF diagnostic program and it does give one error.

**********
Counter with ECL devider

lower upper actual
250 249.990 250.010 271.780

Suspect Input Assemble (high)

**********

The unit receives fine in that and all other frequencies, but has no output in the range of 249 to 272.
Looking over things, it seems to me that something in the divider chain is not working,but no real idea.

I think I made a mistake the other day when swapping modules as some company came in while I was in the middle of testing and about the time I swapped the output module and ran a receive test, but not the output test.

I am thinking about swapping the input assembly but that looks like a major job to do. If I pull out the Input unit does anyone know what to look for ?

Thanks for the help.

73

# 2605. Re: [hp8924] Re: No output from about 250 to 260 MHz

Yahoo group: hp8924
Date: 2017-08-16 17:46:02 UTC
From: Robert Atkinson
Topic: 2587  Message: 2605

Hi,In that case it sounds like low output level from the signal generator moduleRobert G8RPI.

From: "ku4pt@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Wednesday, 16 August 2017, 18:08
Subject: [hp8924] Re: No output from about 250 to 260 MHz

I have let it warm up for a long time, but no effect. I have 3 of the 8924c units now. Two work fine and do not need any warmup so to speak of. Takes about 3 to 5 minutes for the frequency to get close and that is all.. It is the 3 rd one that gives problems over just a narrow range from about 240 to 270 MHz.
The parts for the output module came in and I replaced them. That did not cure the problem.
I then switched the output modules from a working unit and the problem unit. The working unit stilled worked,but the problem unit still had the output problem, so I do not think it is in the output module.
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The unit receives fine in that and all other frequencies, but has no output in the range of 249 to 272.Looking over things, it seems to me that something in the divider chain is not working,but no real idea.
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I am thinking about swapping the input assembly but that looks like a major job to do. If I pull out the Input unit does anyone know what to look for ?
Thanks for the help.
73

# 2606. Re: [hp8924] Re: No output from about 250 to 260 MHz

Yahoo group: hp8924
Date: 2017-08-16 18:47:39 UTC
From: Ralph Mowery
Topic: 2587  Message: 2606

That may be the case Robert.
I swapped out the signal generator board with  a working unit and it started putting out like it should and running the diagnostic screen shows all is ok where before it gave an error on the 250 mhz range.
I tried turning the VCO bias pot just for the fun of it and while looking at the SA screen with the in and out coupled together, the no output area started getting smaller.  After about 5 turns counter clockwise  (maybe I should say anticlockwise) it looked normal.
I am now feeding the signal into an IFR 1200s and it looks normal, but notice the FM deviation is only about 1.8 khz instead of 3 khz.  Will have to do some more testing later today as other duties call.
I am slowly learning a little about this thing.Only other time I have opened them up was to install a high power attenuatior  so I could run 60 to 100 watts into the unit.
Will have to do more testing later to see what is going on as the wife wants me to go off with her.  Says something if we don't get to the grocery store we will not eat..
73

From: "Robert Atkinson robert8rpi@... [hp8924]" <hp8924@yahoogroups.com>
To: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
Sent: Wednesday, August 16, 2017 1:46 PM
Subject: Re: [hp8924] Re: No output from about 250 to 260 MHz

<!--

# 2607. Re: [hp8924] Re: No output from about 250 to 260 MHz

Yahoo group: hp8924
Date: 2017-08-16 17:32:03 UTC
From: David Thompson
Topic: 2587  Message: 2607

Contact Rick Bowman at Amtronix

On Wed, Aug 16, 2017 at 1:08 PM, ku4pt@yahoo.com [hp8924] <
hp8924@yahoogroups.com> wrote:

>
>
> I have let it warm up for a long time, but no effect. I have 3 of the
> 8924c units now. Two work fine and do not need any warmup so to speak of.
> Takes about 3 to 5 minutes for the frequency to get close and that is
> all.. It is the 3 rd one that gives problems over just a narrow range from
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> **********
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> The unit receives fine in that and all other frequencies, but has no
> output in the range of 249 to 272.
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> I think I made a mistake the other day when swapping modules as some
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> swapped the output module and ran a receive test, but not the output test.
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> I am thinking about swapping the input assembly but that looks like a
> major job to do. If I pull out the Input unit does anyone know what to

> look for ?
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> Thanks for the help.
>
> 73
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>
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>

# 2608. Re: [hp8924] Re: No output from about 250 to 260 MHz

Yahoo group: hp8924
Date: 2017-08-17 02:16:19 UTC
From: zl1cvd@...
Topic: 2587  Message: 2608

Input module is a bit of a pig to get at. From a cursory glance at thread comments, I'd say there is something going wrong with filter B on input module. Either the filter itself or DAC controlling it. The input module for 8924 is very very similar to 8920. Somewhere in the group files is a CLIP for 8920. Have a hunt and see if a DAC is controlling a pin diode in the filter. I know the higher frequency filters use this method to tailor filter response.

Also, I can't remember if the 8924 has a service menu like E8285. If it does, you can go into the service menu option and manually adjust filter DAC output. What this will do is help you determine if it is a fault with the filter circuit or a calibration issue - DAC filter values are stored in calibration EEPROM.

If it is a hardware fault, its a good bet it'll be a faulty cap. They used 85DegC caps. Once dust builds up, they get hot inside and the caps dry out badly. I used to buy allot of 8924 & E8285 - fix em up and sell em on. But I got sick of replacing caps and have moved on to later gear.

73s de chris zl1cvd

# 2609. Re: [hp8924] Re: No output from about 250 to 260 MHz

Yahoo group: hp8924
Date: 2017-08-17 03:22:43 UTC
From: Ralph Mowery
Topic: 2587  Message: 2609

Thanks for the reply.
I finally got some time to look the unit over with out any distractions.
After swapping the Signal Generator module with a known good one the 8924c started working correctly.  Passed the tests it failed to start with.  I then put the original module back in and started turning the VCO Bias pot and after about 5 turns the 8924c seemed to start working through the range like it should.  I ran all the internal tests and they all passed.
Maybe the Bias pot just needed adjusting ?  Could be some component changed value enough to throw it out of adjustment.

I then hooked it to an IFR 1200s and ran various tests in receive and generate modes.  They all seemed to work like they should.  I do not know the history of that set.  I bought a working one that checked out fine and this one that was labeled as a parts unit.  Not sure if it ever worked or not as it did not have a power supply at the time.  I just put in one and it got hung up with no output from around 250 to 270 MHz.
I know the 8924 and 8920 are vary similar.  I have downloaded the files several years ago.  Just never had to look at the internal workings of one before.  As with much equipment there are some know  weak spots and I though someone on here may  have seen that particular problem before.
73

From: "zl1cvd@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Wednesday, August 16, 2017 10:16 PM
Subject: Re: [hp8924] Re: No output from about 250 to 260 MHz

#yiv5104752763 #yiv5104752763 -- #yiv5104752763 .yiv5104752763ygrp-photo-title{clear:both;font-size:smaller;min-height:15px;overflow:hidden;text-align:center;width:75px;}#yiv5104752763 div.yiv5104752763ygrp-photo{background-position:center;background-repeat:no-repeat;background-color:white;border:1px solid black;min-height:62px;width:62px;}#yiv5104752763 div.yiv5104752763photo-title a, #yiv5104752763 div.yiv5104752763photo-title a:active, #yiv5104752763 div.yiv5104752763photo-title a:hover, #yiv5104752763 div.yiv5104752763photo-title a:visited {text-decoration:none;}#yiv5104752763 div.yiv5104752763attach-table div.yiv5104752763attach-row {clear:both;}#yiv5104752763 div.yiv5104752763attach-table div.yiv5104752763attach-row div {float:left;}#yiv5104752763 p {clear:both;padding:15px 0 3px 0;overflow:hidden;}#yiv5104752763 div.yiv5104752763ygrp-file {width:30px;}#yiv5104752763 div.yiv5104752763attach-table div.yiv5104752763attach-row div div a {text-decoration:none;}#yiv5104752763 div.yiv5104752763attach-table div.yiv5104752763attach-row div div span {font-weight:normal;}#yiv5104752763 div.yiv5104752763ygrp-file-title {font-weight:bold;}#yiv5104752763 #yiv5104752763 #yiv5104752763 #yiv5104752763 --#yiv5104752763ygrp-mkp {border:1px solid #d8d8d8;font-family:Arial;margin:10px 0;padding:0 10px;}#yiv5104752763 #yiv5104752763ygrp-mkp hr {border:1px solid #d8d8d8;}#yiv5104752763 #yiv5104752763ygrp-mkp #yiv5104752763hd {color:#628c2a;font-size:85%;font-weight:700;line-height:122%;margin:10px 0;}#yiv5104752763 #yiv5104752763ygrp-mkp #yiv5104752763ads

{margin-bottom:10px;}#yiv5104752763 #yiv5104752763ygrp-mkp .yiv5104752763ad {padding:0 0;}#yiv5104752763 #yiv5104752763ygrp-mkp .yiv5104752763ad p {margin:0;}#yiv5104752763 #yiv5104752763ygrp-mkp .yiv5104752763ad a {color:#0000ff;text-decoration:none;}#yiv5104752763

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Also, I can't remember if the 8924 has a service menu like E8285. If it does, you can go into the service menu option and manually adjust filter DAC output. What this will do is help you determine if it is a fault with the filter circuit or a calibration issue - DAC filter values are stored in calibration EEPROM.
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73s de chris zl1cvd

# 2610. 8924c power supply

Yahoo group: hp8924
Date: 2017-08-18 19:02:13 UTC
From: ku4pt@...
Topic: 2610  Message: 2610

Wouldn't you know it.. Get one problem repaired and another starts up.

A power supply in a 8924c will not start up. The green light is on like it is suppose to be. Right now it will start up after leaving the 8924c plugged in for 5 to 10 minutes from not being plugged in for a while

I did replace the 2 capacitors on the vertical board that is mentioned in the files area but no joy. They tested ok on a China component tester after I removed them and the new ones tested ok. I also replaced 3 others on the main board that was mentioned. The C10 did check out at about half value, but it still will not start.

If you have not seen the component tester, it is similar to Peak tester that sells for much more and has several versions.

I did get as far as to measure the Stand by voltage and it shows 15 volts like I think it should, but drops to about 7 volts when the power switch is pressed.

# 2611. Re: 8924c power supply

Yahoo group: hp8924
Date: 2017-08-19 16:14:14 UTC
From: ku4pt@...
Topic: 2610  Message: 2611

I got some time to look over the power supply. I remember a number of years ago some computers had the same problem with bad capacitors and found that heating them would sometimes get the computer started.

I laid the power supply on top of the 8924c wit the cover off. I then took the hot air gun from my hot air rework station as it has a small nozzle on it and started heating up individual capacitors. When I got one area hot the 8924c started up. By doing this several times after cutting the 8924c off and letting it cool down for an hour or so I was able to isolate an area.

I was the vertical board with 2 pots on it. I think is the one labeled J4. On it was 3 capacitors.

c11 4.7 mfd 50 V
c16 100 mfd 35 V
c17 33 mfo 25 V

Replacing them and now the 8924c starts up like it should even after being unplugged overnight.

I am going to test it for a while and then install those 'thousand' screws.

# 2612. Re: [hp8924] Re: 8924c power supply

Yahoo group: hp8924
Date: 2017-08-19 17:51:15 UTC
From: Mike Besemer
Topic: 2610  Message: 2612

mf? Did you mean uF?

(Sorry... couldn't resist!)

Mike
WM4B
On Aug 19, 2017 12:14 PM, "ku4pt@yahoo.com [hp8924]" <hp8924@yahoogroups.com> wrote:

I got some time to look over the power supply. I remember a number of years ago some computers had the same problem with bad capacitors and found that heating them would sometimes get the computer started.

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c16 100 mfd 35 V
c17 33 mfo 25 V

Replacing them and now the 8924c starts up like it should even after being unplugged overnight.

I am going to test it for a while and then install those 'thousand' screws.

# 2613. Re: [hp8924] Re: 8924c power supply

Yahoo group: hp8924
Date: 2017-08-19 19:02:58 UTC
From: Ralph Mowery
Topic: 2610  Message: 2613

Did you mean ohm ?
Sorry could not find the horse shoe symbol.
Those capacitors are getting trickier all the time.  MFD, uF, then someone went pF and took away our uuF.  Lately they added the nF.  Were the condensers rated in  MFD ?
I checked and did put in the uF capacitors I had in hand, just like the ones that came out.  Lucked out and did not use any of my MF or MFD ones.  hihi.
I am getting old and the mind is going.  Often say cycles instead of Hz, 110 volts instead of 120 volts.  And the real good one of mickey micks instead of uuF.  Can I use 'puff' instead of pF ?
There must be a dozen ways to label the capacitors.  From numbers to all the color code schemes.
Just glad the resistors seem to be the same over the years.  Only the color code changed one time that I know of, not counting the SMD resistors, and percision resistors.  Went from body, end , dot to the rings.
73 de Ralph

From: "Mike Besemer mwbesemer@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Saturday, August 19, 2017 1:51 PM
Subject: Re: [hp8924] Re: 8924c power supply

<!--#yiv2822522188 #yiv2822522188 .yiv2822522188ygrp-photo-title{clear:both;font-size:smaller;min-height:15px;overflow:hidden;text-align:center;width:75px;}#yiv2822522188 div.yiv2822522188ygrp-photo{background-position:center;background-repeat:no-repeat;background-color:white;border:1px solid black;min-height:62px;width:62px;}#yiv2822522188 div.yiv2822522188photo-title a, #yiv2822522188 div.yiv2822522188photo-title a:active, #yiv2822522188 div.yiv2822522188photo-title a:hover, #yiv2822522188 div.yiv2822522188photo-title a:visited {text-decoration:none;}#yiv2822522188 div.yiv2822522188attach-table div.yiv2822522188attach-row {clear:both;}#yiv2822522188 div.yiv2822522188attach-table div.yiv2822522188attach-row div {float:left;}#yiv2822522188 p {clear:both;padding:15px 0 3px 0;overflow:hidden;}#yiv2822522188 div.yiv2822522188ygrp-file {width:30px;}#yiv2822522188 div.yiv2822522188attach-table div.yiv2822522188attach-row div div a {text-decoration:none;}#yiv2822522188 div.yiv2822522188attach-table div.yiv2822522188attach-row div div span {font-weight:normal;}#yiv2822522188 div.yiv2822522188ygrp-file-title {font-weight:bold;}#yiv2822522188 --> <!--#yiv2822522188 #yiv2822522188ygrp-mkp {border:1px solid #d8d8d8;font-family:Arial;margin:10px 0;padding:0 10px;}#yiv2822522188 #yiv2822522188ygrp-mkp hr {border:1px solid #d8d8d8;}#yiv2822522188 #yiv2822522188ygrp-mkp #yiv2822522188hd {color:#628c2a;font-size:85%;font-weight:700;line-height:122%;margin:10px 0;}#yiv2822522188 #yiv2822522188ygrp-mkp #yiv2822522188ads {margin-bottom:10px;}#yiv2822522188 #yiv2822522188ygrp-mkp .yiv2822522188ad {padding:0 0;}#yiv2822522188 #yiv2822522188ygrp-mkp .yiv2822522188ad p {margin:0;}#yiv2822522188 #yiv2822522188ygrp-mkp .yiv2822522188ad a {color:#0000ff;text-decoration:none;}-->

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(Sorry... couldn't resist!)

MikeWM4BOn Aug 19, 2017 12:14 PM, "ku4pt@... [hp8924]" <hp8924@yahoogroups.com> wrote:

I got some time to look over the power supply. I remember a number of years ago some computers had the same problem with bad capacitors and found that heating them would sometimes get the computer started.
I laid the power supply on top of the 8924c wit the cover off. I then took the hot air gun from my hot air rework station as it has a small nozzle on it and started heating up individual capacitors. When I got one area hot the 8924c started up. By doing this several times after cutting the 8924c off and letting it cool down for an hour or so I was able to isolate an area.
I was the vertical board with 2 pots on it. I think is the one labeled J4. On it was 3 capacitors.
c11 4.7 mfd 50 Vc16 100 mfd 35 Vc17 33 mfo 25 V

# 2614. Re: [hp8924] Re: 8924c power supply

Yahoo group: hp8924
Date: 2017-08-19 20:45:04 UTC
From: Glenn Little WB4UIV
Topic: 2610  Message: 2614

If one capacitor has gone bad, others are right behind it.
Unless you really like the unreliability of the unit starting and really like dragging it onto the bench and removing all of those screws, I would replace all of the electrolytics unless you have very good reason to know that the others are not failing.
The cost of the capacitors is minimum as compared to the unexpected (in this case, expected) downtime.
All replacement capacitors should be 105 degree C or better and high current capable in the primary voltage converter.

After replacing all of the electrolytics, you should get many years of service from the supply.

When you repair a car engine, you do not replace the rings on the one cylinder that has lower compression, you rebuild the engine and replace all of the rings and gaskets.

Same here.

Glenn

On 8/19/2017 12:14 PM, ku4pt@... [hp8924] wrote:
>
>
> I got some time to look over the power supply.  I remember a number of
> years ago some computers had the same problem with bad capacitors and
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> I am going to test it for a while and then install those 'thousand' screws.

>
>
>
>
>

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Glenn Little ARRL Technical Specialist QCWA LM 28417
Amateur Callsign: WB4UIV wb4uiv@... AMSAT LM 2178
QTH: Goose Creek, SC USA (EM92xx) USSVI LM NRA LM SBE ARRL TAPR
"It is not the class of license that the Amateur holds but the class
of the Amateur that holds the license"
---

# 2615. RE: [hp8924] Re: 8924c power supply

Yahoo group: hp8924
Date: 2017-08-19 21:02:13 UTC
From: Mike Besemer
Topic: 2610  Message: 2615

No worries. The way that Omega is shaped, all the luck will run out of it anyway.

I learned to say ‘puffs, when I was taught. I also learned that Bad Boys Rape Our Young Girls But Violet Gives Willingly and that Biloxi Booze Rots Out Your Gut But Vodka Goes Well.

73,

Mike

WM4B

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com]
Sent: Saturday, August 19, 2017 3:03 PM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] Re: 8924c power supply

Did you mean ohm ?

Sorry could not find the horse shoe symbol.

Those capacitors are getting trickier all the time. MFD, uF, then someone went pF and took away our uuF. Lately they added the nF. Were the condensers rated in MFD ?

I checked and did put in the uF capacitors I had in hand, just like the ones that came out. Lucked out and did not use any of my MF or MFD ones. hihi.

I am getting old and the mind is going. Often say cycles instead of Hz, 110 volts instead of 120 volts. And the real good one of mickey micks instead of uuF. Can I use 'puff' instead of pF ?

There must be a dozen ways to label the capacitors. From numbers to all the color code schemes.

Just glad the resistors seem to be the same over the years. Only the color code changed one time that I know of, not counting the SMD resistors, and percision resistors. Went from body, end , dot to the rings.

73 de Ralph

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From: "Mike Besemer mwbesemer@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Saturday, August 19, 2017 1:51 PM
Subject: Re: [hp8924] Re: 8924c power supply

mf? Did you mean uF?

(Sorry... couldn't resist!)

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WM4B

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# 2616. Re: [hp8924] Re: 8924c power supply

Yahoo group: hp8924
Date: 2017-08-19 22:26:31 UTC
From: Ralph Mowery
Topic: 2610  Message: 2616

I probably should have replaced all of them Glenn.
I did not have enough on hand to do that.
As This is just a hobby for me, and I now have 3 working units, I don't think I will have any down time.  I only have that many because I had one and got a chance to get another working plus parts unit for about $ 500.  I just added a power supply that was missing from the parts unit and it is now working.  I found that power supply for not too much.
I guess that I am a hoarder of equipment if I get it at a steal.  Like I bought a 8922 (think that is it) for $ 55 shipped.  Mainly because it uses the same display unit.. I thought it may have some more parts that would interchange if needed.  Too bad it was not the unit that had the SA in it.
If I was a shop and depended on them to make money,I probably would have replaced every capacitor.  I did check a few that were pulled out and changed before I found the problem and they were all good with a low ESR.
Like when I was working in a large company and a motor speed control for a 300 HP motor went bad.  A factory man came to repair it and found 2 diodes that were rated at a couple of hundred amps were bad.  As it was 3 phase and had one more, I told him to replace the 3 rd one.  He said they were about $ 200 each.  I told him that was not much as we could be loosing around $ 3000 per hour in production while the machine was down.
73

From: "Glenn Little WB4UIV glennmaillist@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Saturday, August 19, 2017 4:45 PM
Subject: Re: [hp8924] Re: 8924c power supply

If one capacitor has gone bad, others are right behind it.
Unless you really like the unreliability of the unit starting and really like dragging it onto the bench and removing all of those screws, I would replace all of the electrolytics unless you have very good reason to know that the others are not failing.
The cost of the capacitors is minimum as compared to the unexpected (in this case, expected) downtime.
All replacement capacitors should be 105 degree C or better and high current capable in the primary voltage converter.

After replacing all of the electrolytics, you should get many years of service from the supply.

When you repair a car engine, you do not replace the rings on the one cylinder that has lower compression, you rebuild the engine and replace all of the rings and gaskets.

Same here.

Glenn

# 2617. E8285A V2.04 firmware

Yahoo group: hp8924
Date: 2017-09-02 08:59:28 UTC
From: blaze_1024@...
Topic: 2617  Message: 2617

I'm wondering if anyone has the bin files for the E8285a v2.04 firmware. I have several 4mb PCMCIA ROM cards and the capability of writing to them which I've used successfully to write the RFtools bin files.

I know the files are available on Ebay but I simply can't afford it, About 5 months ago I suffered from 3 herniated disks in my back. I never knew it was posable to be in so much pain 24/7 my prescriptions alone are costing me over $1000 a month and I haven't worked in 5 months. To make matters worse they want to cut me open and grind away at my back bone with a damn Dremel tool.

Anyhow, I'm stuck in a wheel chair and losing my mind with boredom. My son set up my bench and shop so I can use it while in my wheelchair. I've had my e8285 for several years but due to work I never really got a chance to play with it. Anyhow It would be great therapy for me to learn how to operate it.

If you have the Bin files and don't want to post them on line you can email them to me, although I don't know why as the firmware for other models is available online..

I could also use the latest version of Memory Card explore as right now I'm using the Ricoh demo version which seems to work fine writing the old 4 meg CNC cards I have. But I am getting tired of having to reinstall windows on my old laptop every time I want to use it.

Best Regards
Dan Nelson

# 2618. Power Supply 8920/8921

Yahoo group: hp8924
Date: 2017-09-11 02:07:43 UTC
From: larson_art@...
Topic: 2618  Message: 2618

I trying to remove my power supply to replace some capacitors. The power switch on the front panel has a plastic arm that runs all the back to the power supply. Does any one know how to remove that so I can pull the power supply out?

# 2619. Re: Power Supply 8920/8921

Yahoo group: hp8924
Date: 2017-09-11 20:05:55 UTC
From: jyelmgren@...
Topic: 2618  Message: 2619

carefully 8} the plastic is usually old and dried out so it's lost a lot of the flexibility it once had and will break.

remove the RF I/O assembly first so you have some room to move the rod and work with. Easier to re-install with it out. You will have to remove three T15 ( I think ) screws , two Front Panel BNC nuts and a number of RF rigid cables ( exact number depends on the version and option ). The 9 pin D ribbon comes off as well once you get it flipped up.

Believe it just pushed on to the switch from the front. At least that is how I re-installed the last one a couple of weeks ago to re-install.

So going from memory.....

To remove the push rod put the power switch in the ON position so it's in all the way and you have room to push the rod forward,

Usually grabbed the exposed plastic of the on off SWITCH with a pair of small needle nose and used a smaller flat blade to lever the push rod UP and toward the front against the pliers.

If that doesn't go try to lever it "UP" or toward you assuming you have it laying on its top.

The switch plastic actuator snaps into a U channel in the end of the push rod which you may not be able to see very well.

Like I said this is from memory and not guaranteed to be completely accurate.

Be gentle and careful ...these are old and fragile most times.

# 2620. 8924C Signal Generator and Tracking Gen don't agree

Yahoo group: hp8924
Date: 2017-09-17 04:38:37 UTC
From: matt.ames7bc@...
Topic: 2620  Message: 2620

Hi all,

I was using my 8924C today, and just as a test of the unit itself, I ran a cable (three feet of LMR-400 UF) from the Duplex out port to the RF In/Out port.

For the first test, I used the RF Gen screen to generate a 10dBm signal, and then switched to the RF Analyzer screen to see what power levels the 8924 read. With 10dBm generated, the RF Analyzer measured 8.82 dBm which I thought was fair enough - there's a cable and two adaptors there so there's bound to be a bit of loss.

When I switch over to the tracking generator / spectrum analyzer, with 10 dBm on the tracking generator, I only see 7dBm on the spec an. The centre frequency is set to 430MHz on both tests. Am I doing something wrong, or is the spectrum analyzer out somehow?

The other thing I noticed, is that the RF Generator seems to be limited to no more than 10dBm - when I increase it past 10dBm up to the maximum of 18dBm, there's no change to the received signal power.

Cheers,
Matt

# 2621. Re: [hp8924] 8924C Signal Generator and Tracking Gen don't agree

Yahoo group: hp8924
Date: 2017-09-17 14:14:51 UTC
From: Ralph Mowery
Topic: 2620  Message: 2621

I noticed some similar things on my 8924c.  Try just setting the output to about 0 dbm max when using the tracking generator and SA.
The specs are only about 3 dbm for the duplex output and - 10 dbm for the RF output.  I think that if  you have a higher power than the 3 watt input that many of the 8924c's have you may even get less than the -10 dbm of the rf output.
For some reason the 8924c will let you enter more power out than it can generate.

From: "matt.ames7bc@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Sunday, September 17, 2017 12:38 AM
Subject: [hp8924] 8924C Signal Generator and Tracking Gen don't agree

<!--#yiv3221467024 #yiv3221467024 .yiv3221467024ygrp-photo-title{clear:both;font-size:smaller;min-height:15px;overflow:hidden;text-align:center;width:75px;}#yiv3221467024 div.yiv3221467024ygrp-photo{background-position:center;background-repeat:no-repeat;background-color:white;border:1px solid black;min-height:62px;width:62px;}#yiv3221467024 div.yiv3221467024photo-title a, #yiv3221467024 div.yiv3221467024photo-title a:active, #yiv3221467024 div.yiv3221467024photo-title a:hover, #yiv3221467024 div.yiv3221467024photo-title a:visited {text-decoration:none;}#yiv3221467024 div.yiv3221467024attach-table div.yiv3221467024attach-row {clear:both;}#yiv3221467024 div.yiv3221467024attach-table div.yiv3221467024attach-row div {float:left;}#yiv3221467024 p {clear:both;padding:15px 0 3px 0;overflow:hidden;}#yiv3221467024 div.yiv3221467024ygrp-file {width:30px;}#yiv3221467024 div.yiv3221467024attach-table div.yiv3221467024attach-row div div a {text-decoration:none;}#yiv3221467024 div.yiv3221467024attach-table div.yiv3221467024attach-row div div span {font-weight:normal;}#yiv3221467024 div.yiv3221467024ygrp-file-title {font-weight:bold;}#yiv3221467024 --> <!--#yiv3221467024 #yiv3221467024ygrp-mkp {border:1px solid #d8d8d8;font-family:Arial;margin:10px 0;padding:0 10px;}#yiv3221467024 #yiv3221467024ygrp-mkp hr {border:1px solid #d8d8d8;}#yiv3221467024 #yiv3221467024ygrp-mkp #yiv3221467024hd {color:#628c2a;font-size:85%;font-weight:700;line-height:122%;margin:10px 0;}#yiv3221467024 #yiv3221467024ygrp-mkp #yiv3221467024ads {margin-bottom:10px;}#yiv3221467024 #yiv3221467024ygrp-mkp .yiv3221467024ad {padding:0 0;}#yiv3221467024 #yiv3221467024ygrp-mkp .yiv3221467024ad p {margin:0;}#yiv3221467024 #yiv3221467024ygrp-mkp .yiv3221467024ad a {color:#0000ff;text-decoration:none;}-->

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The other thing I noticed, is that the RF Generator seems to be limited to no more than

10dBm - when I increase it past 10dBm up to the maximum of 18dBm, there's no change to the received signal power.
Cheers,
Matt

# 2622. HP Formatted SRAM or Linear Flash card BIN file

Yahoo group: hp8924
Date: 2017-09-22 07:29:51 UTC
From: blaze_1024@...
Topic: 2622  Message: 2622

I'm wondering if anyone on the forum could provide a bin file of a blank HP formatted flash card.

What I'm looking for is an image file of a 4 megabyte PCMCIA card that's been formatted using an Agilent e8285a or an 8924C. It doesn't absolutely need to be blank if you have a card and the ability to create a bin file from it then I really don't care if there are files on it as long as it's not an HP read-only ROM card. It needs to be a RAM card writable by the analyzer.

Best Regards

Dan.

# 2623. Re: [hp8924] HP Formatted SRAM or Linear Flash card BIN file

Yahoo group: hp8924
Date: 2017-09-22 15:44:21 UTC
From: Robert Atkinson
Topic: 2622  Message: 2623

Hi,Request is slightly contradictory, do you want an image of a RAM card or a Flash card? I can do either but will have to drag out the PC with Elan software on it.
Robert G8RPI.

From: "blaze_1024@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Friday, 22 September 2017, 8:29
Subject: [hp8924] HP Formatted SRAM or Linear Flash card BIN file

I'm wondering if anyone on the forum could provide a bin file of a blank HP formatted flash card.

What I'm looking for is an image file of a 4 megabyte PCMCIA card that's been formatted using an Agilent e8285a or an 8924C. It doesn't absolutely need to be blank if you have a card and the ability to create a bin file from it then I really don't care if there are files on it as long as it's not an HP read-only ROM card. It needs to be a RAM card writable by the analyzer.

Best Regards

Dan.

# 2624. Re: [hp8924] HP Formatted SRAM or Linear Flash card BIN file

Yahoo group: hp8924
Date: 2017-09-23 00:56:22 UTC
From: blaze_1024@...
Topic: 2622  Message: 2624

What I need is a bin image file of 4meg PCMCIA card that's been formatted in an HP E8285a or even an HP 8924 and that's writable by the same machine.

What I don't need is an image of an HP ROM card because that's what got me into trouble in the first place. I used MCE to copy RFTOOLS bin image to a PCMCIA CARD that was previously writable by my E8285A. Since it was an Image of a ROM card it made the card read only kinda like when you copy files from a CD ROM. So far nothing has worked to make the card writable again by my E8285a. In retrospect, I guess I should have made an image of the HP formatted PCMCIA card before I copied the RFtools image ROM to it
. No matter what I do the HP still sees the card as a ROM card and refuses to format it, even erasing it with MCE has failed to make it writable by the Hp again.

I'm hoping flashing the card with an HP formated writable 4meg image of a PCMCIA card will reverse the process if not then this card is now useless for saving files to from the HP. Interestingly enough the Card is still writable by MCE but MCE cant remove the software write protection.

By the way, what is Elan software ?

Best Regards Dan

# 2625. Re: [hp8924] HP Formatted SRAM or Linear Flash card BIN file

Yahoo group: hp8924
Date: 2017-09-23 01:38:29 UTC
From: zl1cvd@...
Topic: 2622  Message: 2625

Format any SRAM card on a PC with FAT16 and the HP will read it. Mount the RF Tools BIN with PowerISO and copy the files from mounted BIN to FAT16 formatted SRAM card. Pur SRAM into E8285A and it will read it fine.

Linear flash is another story. use MCE to write the BIN to linear flash. As long as the card is in fact linear flash and supports +5V writing AND is larger than the RF Tools bin it will work. There are allot of flash cards out there that are NOT linear. There are allot that do not support 5V writing. There are allot of PCs that do not support 5V writing.

If you can't get it all going from this, you can buy for $40 a FLASH card with RF Tools on it. Price includes shipping globally by NZ Post air mail - 10 to 25 days not tracked. I sell them on eBay for $50. Note the RF tools I sell has been patched to allow it to run on E8285A & 8924C but still some of the scanner type programs don't like E8285A because it has no front panel squelch control. The program specifically looks for this to stop scanning. When it cant find it, it errors. However all the actual RF Tools programs run fine now - just an issue with the scanner program/s.

73s de chris zl1cvd

# 2626. Re: HP Formatted SRAM or Linear Flash card BIN file

Yahoo group: hp8924
Date: 2017-09-23 01:41:19 UTC
From: blaze_1024@...
Topic: 2622  Message: 2626

Okay, my bad, Elan software is MCE. I should mention that I'm using the Free Ricoh demo version, which seems limited to only writing BIN files. The newer versions of MCE seem to be more powerful and can actually read and write individual files to a PCMCIA Flash card.

You are correct my first post was contradictory. I was extremely tired when I wrote it and should have clarified that what I'm looking for is an image of an HP formatted 4meg PCMCIA Flash Card that's writable by the HP E8285a.

I'm hoping that flashing the card with an HP Writable image of a PCMCIA flash will make the card look like a writable flash card again and not a read-only HP ROM card. As it is right now the HP can see the files on it and load RFtools from it but can't write anything back to the card nor can it format it because it thinks it's an HP ROM card. Prior to flashing it with the RFtools bin Image the card had been formatted by the HP and was writable by it.

Dan

# 2627. Re: HP Formatted SRAM or Linear Flash card BIN file

Yahoo group: hp8924
Date: 2017-09-23 01:55:16 UTC
From: zl1cvd@...
Topic: 2622  Message: 2627

I have never been able to get any HP 8924 or E8285A to WRITE to and EEPROM card, only SRAM. So good luck and let us know how you did it if you crack it. Cheers!

# 2628. Re: HP Formatted SRAM or Linear Flash card BIN file

Yahoo group: hp8924
Date: 2017-09-23 04:33:32 UTC
From: blaze_1024@...
Topic: 2622  Message: 2628

Hi Chris,

I had no problem writing the Rftools Bin file to the Flash cards I have. I'm not actually sure what these cards are. They were in my computer laptop junk pile. I cant tell you how many times I almost threw away all those old laptops. But being your average electronics nerd didn't have the heart to get rid of it so I just stored it all in my storage trailer.

The cards I have, don't have any labels and no numbers just a metal top and bottom, and there is no write protect switch on them. When I put them in the HP it saw them as 4meg cards and formatted them. I was able to save and do recalls data from them.

The problem started after I used MCE to write the Rftools bin file to them. Ever since that point the HP sees them as a ROM card and will no longer format them. I've erased the card using MCE and still no luck. I was even able to flash the cards with the 2.04 firmware ROM and use them to flash the V2.04 firmware to the HP and it worked fine.

By the way, thank you for posting the RFtools image, I've been having a great time with it. The day I got it installed I ended up spending half the night testing coax assembly. I even tested an MFJ coax switch and confirmed what I always suspected and that is that it's a piece of junk. Every time I tried to use it on VHF and above my transmitters would fold back power. It had a huge impedance bump with a return loss of 9.5 at VHF and got worse the higher in frequency you went. On the other hand, the Alpha Delta switches I tested were absolutely beautiful, In my opinion, they are well worth the money. Now that I think about it maybe I should test those MFJ switches on HF and see how they perform

It also allowed me to confirm what I always suspected and that is most hams don't know how to properly solder a PL259 onto coax. I have collected a lot of coax runs from people who claim to be experts on soldering PL259's onto coax and now I can't wait to show them the screenshots of the Impeadence bumps their soldering job created. I've now seen soldered PL259's with Return losses of over 9 dB at 145Mhz.

I also learned that my crimped and clamped PL259s and BNC's have negligible Return loss. I always thought that the crimped connectors, as well as the clamped style connectors, were better and now I was able to prove it.

The distance to fault program which acts like a TDR is an amazing tool that no ham should be without. I was amazed when I compared some cheap Chinese coax against some good Belden coax. The cheap stuff had huge impedance bumps as high as 10.5dB return loss all down the run while the Belden coax was flat the whole run with the only impedance bums at the start and end of the coax.

By the way, if anyone is interested I figured out how to take screenshots while using Ibasic programs like Rftools.

I connected a laptop to the db9 connector on the HP and am able to use the software I downloaded to take screenshots of all the built-in programs like the Spectrum analyzer but was unable to take screenshots while any of the RFtools programs were running which was a

hugh disappointing.

I discovered that if you pause the Ibasic program by pressing the cancel button you could then take a screenshot. Once you have your screenshot you simple press the continue button using K1 and the program once again resumes right where you left off.

Once again I've been stuck in a wheelchair for over 6 months now and my neurosurgeon tells me it could be another year before I'm walking. My prescriptions are over a $1000 a month and my wife has had to take on a second job so I really can't afford to spend money on software or new PCMCIA cards.

Interestingly enough I am making a bit of money with the HP. I jokingly offered to scan coax for my ham friends for $5 a run, one of my friends thought I wasn't charging enough so he anounced it during a local net for $10 a run and I now have like 30 piles of coax in the shop waiting to be tested LOL !!! The only other tool I need to do it right is a hipot tester. Unfortunately, even though I would love to have one they are out of my price range.

Once again thanks for all your hard work and for posting RF tools online. I would have loved to buy it from you via ebay but I simply can't afford it right now. Maybe when I get back on my feet I'll send you a donation.

Best Regards
Dan

# 2629. Re: [hp8924] Re: HP Formatted SRAM or Linear Flash card BIN file

Yahoo group: hp8924
Date: 2017-09-23 07:52:20 UTC
From: Robert Atkinson
Topic: 2622  Message: 2629

Hi Dan,That's rather confusing. As Chris says the HP 892x series radio test sets can't write to Flash cards. Your cards sound like flash as most SRAM cards have a battery and / or write protect switch. Again as chris says, try formatting one as FAT 16 in a laptop using DOS or Windows (not MCE) and see how that goes.
Robert G8RPI.

From: "blaze_1024@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Saturday, 23 September 2017, 5:33
Subject: [hp8924] Re: HP Formatted SRAM or Linear Flash card BIN file

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Best Regards
Dan

# 2630. Re: [hp8924] Re: HP Formatted SRAM or Linear Flash card BIN file

Yahoo group: hp8924
Date: 2017-09-23 13:15:50 UTC
From: blaze_1024@...
Topic: 2622  Message: 2630

Okay now I'm confused, there doesn't seem to be any official ISO standard for PCMCIA memory cards or at least one I can find and the information on the web is contradictory or very confusing. The whole thing is a total Cluster screw up no wonder they abandoned the technology.

Anyhow like I said the cards have no labels on them and I simply assumed that all PCMCIA cards whether SRAM and Linear were called flash cards. So if I understand this correctly FLASH cards are eeprom type of memory.

Okay, that issue aside what's the maximum memory size card the e8285a will support. It's not like I can afford to go out and buy one right now, I have another $3500 MRI scheduled and my insurance only covers the first $2000 so I'm on the hook for the remaining $1500 and this will be my third MRI in the last 6 months ARGG.

The worst part of these MRI's is I can't lay down flat for the procedure so they have to put an IV in and feed me morphine throughout the entire procedure and that costs yet another $500 but hey at least I can keep my eyes open for another card and budget for it.

This whole back thing is really pissing me off, just 6 months ago I was jogging 5 miles a day and working out in the gym helping my son get ready for Basic training, He has since graduated Basic at Fort Benning and is now in Ranger school. Meanwhile, I'm still stuck in this damn wheelchair and I'm not allowed to lift anything over 5 pounds. Trust me that's a hard pill to swallow and I always forget.

The last time I forgot I ended up in the emergency room. Without even thinking about it I tried to move an O-scope that was in the way of my wheelchair. I kept bumping into it so without thinking I just grabbed it and tried to move it.

Thankfully my wife was home, she came running and found me passed out. That little mistake cost me an ambulance ride, an emergency room visit another MRI, an ultrasound of the arteries in my legs and 4 days in the hospital.

The only good part of being in the hospital is they keep you pumped full of morphine, It was the first time in over 5 months that I actually slept for more than 20 minutes at a time. I still haven't gotten the bill for that mess but I guarantee that even with insurance it's going to cost me more than the Siglent SSA3021X-TG spectrum analyzer I've been drooling over.

Anyhow sorry for the long rambling post, I've been up since 3am, it's now 5am and there's nothing to do here other than watch TV or type on the computer.

By the way, I got really lucky, A local ham who's also an RF engineer gave me 6 beautiful Agilent 8491B N connector attenuators, two 3db, two 6db and two 10db and all 6 had calibration tags less than 2 months old which plotted and listed the actual attenuation.

He also gave me a couple of really nice Mini-circuits combiners-spliters which cover different frequency ranges. and he gave me a hand full of coax jumpers made from RG-400

with silver plated connectors, I think they might be Agilent parts as they all have white labels with part numbers printed on them. They have N connectors on one side and SMA or BNC on the other and several have N connectors on both ends.

Anyhow Best Regards
Dan

# 2631. Re: Any interest in USB PCMCIA Flash adapter or LCD Conversion for the 8935 others?

Yahoo group: hp8924
Date: 2017-09-28 03:26:25 UTC
From: blaze_1024@...
Topic: 892  Message: 2631

Was there any further development on this project?

# 2632. Re: [hp8924] Digest Number 826

Yahoo group: hp8924
Date: 2017-09-29 17:16:53 UTC
From: Terry Garrett
Topic: 2632  Message: 2632

I guess NOT!That's too bad.

From: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Thursday, September 28, 2017 8:10 PM
Subject: [hp8924] Digest Number 826

<!--#yiv0446122639 #yiv0446122639ygrp-mkp {border:1px solid #d8d8d8;font-family:Arial;margin:10px 0;padding:0 10px;}#yiv0446122639 #yiv0446122639ygrp-mkp hr {border:1px solid #d8d8d8;}#yiv0446122639 #yiv0446122639ygrp-mkp #yiv0446122639hd {color:#628c2a;font-size:85%;font-weight:700;line-height:122%;margin:10px 0;}#yiv0446122639 #yiv0446122639ygrp-mkp #yiv0446122639ads {margin-bottom:10px;}#yiv0446122639 #yiv0446122639ygrp-mkp .yiv0446122639ad {padding:0 0;}#yiv0446122639 #yiv0446122639ygrp-mkp .yiv0446122639ad p {margin:0;}#yiv0446122639 #yiv0446122639ygrp-mkp .yiv0446122639ad a {color:#0000ff;text-decoration:none;}#yiv0446122639 #yiv0446122639ygrp-sponsor #yiv0446122639ygrp-lc {font-family:Arial;}#yiv0446122639 #yiv0446122639ygrp-sponsor #yiv0446122639ygrp-lc #yiv0446122639hd {margin:10px 0px;font-weight:700;font-size:78%;line-height:122%;}#yiv0446122639 #yiv0446122639ygrp-sponsor #yiv0446122639ygrp-lc .yiv0446122639ad {margin-bottom:10px;padding:0 0;}--> HP Agilent 8924C HP Agilent 8924C Group
1 Message
Digest #826 1a Re: Any interest in USB PCMCIA Flash adapter or LCD Conversion for t by icom_pro3_user
Message

1a

Re: Any interest in USB PCMCIA Flash adapter or LCD Conversion for t

Wed Sep 27, 2017 8:30 pm (PDT) . Posted by:

icom_pro3_user
Was there any further development on this project? Reply to sender . Reply to group . Reply via Web Post . All Messages (10) . Top ^ Visit Your Group
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# 2633. Re: [hp8924] Digest Number 826

Yahoo group: hp8924
Date: 2017-09-29 18:40:26 UTC
From: Robert Atkinson
Topic: 2632  Message: 2633

Hi,The OP seemed to disappear after questions were asked. They said they had prototyped a working PCMCIA to USB stick converter but did not say how. As they are so different there would have to be some kind  of intelligence between them. I think it was a pipedream.If you want a LCD display use one of the Gonbes GBS82xx boards and either an external monitor or fit one of the small LCD + driver board kits that are sold for car use like http://www.ebay.co.uk/itm/VGA-AV-Reversing-LCD-Controller-Board-5-6inch-TFT-AT056TN53-640x480-LCD-Panel/371075775010 you need to check the ptysical size and fit. They do larger ones.
Robert G8RPI.

From: "Terry Garrett kb9jzy@... [hp8924]" <hp8924@yahoogroups.com>
To: No Reply <notify-dg-hp8924@yahoogroups.com>; "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
Sent: Friday, 29 September 2017,18:20
Subject: Re: [hp8924] Digest Number 826

I guess NOT!That's too bad.

From: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Thursday, September 28, 2017 8:10 PM
Subject: [hp8924] Digest Number 826

HP Agilent 8924C HP Agilent 8924C Group
1 Message
Digest #826 1a Re: Any interest in USB PCMCIA Flash adapter or LCD Conversion for t by icom_pro3_user
Message

1a

Re: Any interest in USB PCMCIA Flash adapter or LCD Conversion for t

Wed Sep 27, 2017 8:30 pm (PDT) . Posted by:

icom_pro3_user
Was there any further development on this project? Reply to sender . Reply to group . Reply via Web Post . All Messages (10) . Top ^ Visit Your Group
• Privacy • Unsubscribe • Terms of Use

# 2634. Re: [hp8924] Digest Number 826

Yahoo group: hp8924
Date: 2017-09-30 01:28:50 UTC
From: blaze_1024@...
Topic: 2632  Message: 2634

Even though I really like the look of vintage EL screens I don't like the replacement costs nor the burn-in issues. So I really like the idea of using an LCD screen rather than replacing the EL display. I'm wondering if anyone has managed to fit one of these inside the case where the EL screen is normally mounted or do people normally mount them outside the case?

I was thinking about going the GBS8200 route and trying to mount the LCD inside the case. even though there's probably enough room inside the case for the GBS8200, I think I would rather mount it outside the 8285 in its own separate case and then mount a dedicated BNC or VGA or even HDMI on the back of the 8285 case. This way I would have easy access to the GBS8200.
Also, I'm not sure how susceptible the e8285 would be to RFI being generated by a foreign device being mounted inside its case. Most of my experience with Chinese made stuff is that they're RFI nightmares.

It's Just a thought, personally, I think the 8285 would look sexy with a color LCD mounted inside the case. It would be nice to be able to easily change the display colors. That way when you get tired of green you could switch to whatever color you like.

---In hp8924@yahoogroups.com, <robert8rpi@...> wrote :

Hi,
The OP seemed to disappear after questions were asked. They said they had prototyped a working PCMCIA to USB stick converter but did not say how. As they are so different there would have to be some kind of intelligence between them. I think it was a pipedream.
If you want a LCD display use one of the Gonbes GBS82xx boards and either an external monitor or fit one of the small LCD + driver board kits that are sold for car use like http://www.ebay.co.uk/itm/VGA-AV-Reversing-LCD-Controller-Board-5-6inch-TFT-AT056TN53-640x480-LCD-Panel/371075775010 http://www.ebay.co.uk/itm/VGA-AV-Reversing-LCD-Controller-Board-5-6inch-TFT-AT056TN53-640x480-LCD-Panel/371075775010 you need to check the ptysical size and fit. They do larger ones.

Robert G8RPI.

From: "Terry Garrett kb9jzy@... [hp8924]" <hp8924@yahoogroups.com>
To: No Reply <notify-dg-hp8924@yahoogroups.com>; "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
Sent: Friday, 29 September 2017,18:20
Subject: Re: [hp8924] Digest Number 826

I guess NOT!
That's too bad.

From: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Thursday, September 28, 2017 8:10 PM
Subject: [hp8924] Digest Number 826

HP Agilent 8924C https://groups.yahoo.com/neo;_ylc=X3oDMTJlbG9qMDJiBF9TAzk3MzU5NzE1BGdycElkAzIxODU1MDE4BGdycHNwSWQDMTcwNTA2MzEwOARzZWMDZnRyBHNsawNnZnAEc3RpbWUDMTUwNjY0NzQxOQ--?soc_src=mail&soc_trk=ma
HP Agilent 8924C Group https://groups.yahoo.com/neo/groups/hp8924/info;_ylc=X3oDMTJlN3JqNWgzBF9TAzk3MzU5NzE1BGdycElkAzIxODU1MDE4BGdycHNwSWQDMTcwNTA2MzEwOARzZWMDaGRyBHNsawNocGgEc3RpbWUDMTUwNjY0NzQxOQ--?soc_src=mail&soc_trk=ma

1 Message Digest #826

1a
Re: Any interest in USB PCMCIA Flash adapter or LCD Conversion for t
https://mg.mail.yahoo.com/neo/launch?.rand=3uh6an25k7u12#1a by icom_pro3_user

Message 1a Re: Any interest in USB PCMCIA Flash adapter or LCD Conversion for t https://groups.yahoo.com/neo/groups/hp8924/conversations/topics/2631;_ylc=X3oDMTJyMWpiYnRoBF9TAzk3MzU5NzE1BGdycElkAzIxODU1MDE4BGdycHNwSWQDMTcwNTA2MzEwOARtc2dJZAMyNjMxBHNlYwNkbXNnBHNsawN2bXNnBHN0aW1lAzE1MDY2NDc0MTk-?soc_src=mail&soc_trk=ma

Wed Sep 27, 2017 8:30 pm (PDT) . Posted by: icom_pro3_user mailto:blaze_1024@...?subject=Re%3A%20Any%20interest%20in%20USB%20PCMCIA%20Flash%20adapter%20or%20LCD%20Conversion%20for%20t

Was there any further development on this project?

Reply to sender mailto:blaze_1024@...?subject=Re%3A%20Any%20interest%20in%20USB%20PCMCIA%20Flash%20adapter%20or%20LCD%20Conversion%20for%20t . Reply to group mailto:hp8924@yahoogroups.com?subject=Re%3A%20Any%20interest%20in%20USB%20PCMCIA%20Flash%20adapter%20or%20LCD%20Conversion%20for%20t . Reply via Web Post https://groups.yahoo.com/neo/groups/hp8924/conversations/messages/2631;_ylc=X3oDMTJyZWNqamQ2BF9TAzk3MzU5NzE1BGdycElkAzIxODU1MDE4BGdycHNwSWQDMTcwNTA2MzEwOARtc2dJZAMyNjMxBHNlYwNkbXNnBHNsawNycGx5BHN0aW1lAzE1MDY2NDc0MTk-?act=reply&messageNum=2631&soc_src=mail&soc_trk=ma . All Messages (10) https://groups.yahoo.com/neo/groups/hp8924/conversations/topics/892;_ylc=X3oDMTM1dWNxdGszBF9TAzk3MzU5NzE1BGdycElkAzIxODU1MDE4BGdycHNwSWQDMTcwNTA2MzEwOARtc2dJZAMyNjMxBHNlYwNkbXNnBHNsawN2dHBjBHN0aW1lAzE1MDY2NDc0MTkEdHBjSWQDODky?soc_src=mail&soc_trk=ma . Top ^
https://mg.mail.yahoo.com/neo/launch?.rand=3uh6an25k7u12#toc

Visit Your Group https://groups.yahoo.com/neo/groups/hp8924/info;_ylc=X3oDMTJmNW91N25pBF9TAzk3MzU5NzE1BGdycElkAzIxODU1MDE4BGdycHNwSWQDMTcwNTA2MzEwOARzZWMDdnRsBHNsawN2Z2hwBHN0aW1lAzE1MDY2NDc0MTk-?soc_src=mail&soc_trk=ma
https://groups.yahoo.com/neo;_ylc=X3oDMTJlbG9qMDJiBF9TAzk3MzU5NzE1BGdycElkAzIxODU1MDE4BGdycHNwSWQDMTcwNTA2MzEwOARzZWMDZnRyBHNsawNnZnAEc3RpbWUDMTUwNjY0NzQxOQ--?soc_src=mail&soc_trk=ma • Privacy
https://info.yahoo.com/privacy/us/yahoo/groups/details.html?soc_src=mail&soc_trk=ma • Unsubscribe mailto:hp8924-unsubscribe@yahoogroups.com?subject=Unsubscribe • Terms of Use
https://info.yahoo.com/legal/us/yahoo/utos/terms/?soc_src=mail&soc_trk=ma

# 2635. Re: Flash card experiment

Yahoo group: hp8924
Date: 2017-09-30 21:49:53 UTC
From: blaze_1024@...
Topic: 945  Message: 2635

Hi, Joe.

I know this is an old post but there seems to be a serious lack of information regarding HP's compatibility with these cards. So now I'm confused I thought the E8285 could read and write to linear flash. I have a chance to pick up a 4mb linear flash card for $10, I guess the only way I will find out is to actually buy one and see what I can figure out.

I'm out of memory on my test set and still have tons of test configurations I need to store. I hate manually reconfiguring the test set every time I need to do a test. It's just so much simpler to set it up once and save the setup for future recall. The other issue is the limited filename length makes it difficult to assign names to test configurations that make it easy to remember what they do. so I've started a spreadsheet that lists all the test configurations I've programmed and what they are intended for.

So the question of the day, Does the e8285a actually support read-write to Intel series 2 linear flash cards.

# 2636. Re: [hp8924] Re: Flash card experiment

Yahoo group: hp8924
Date: 2017-10-01 13:00:55 UTC
From: Robert Atkinson
Topic: 945  Message: 2636

Hi,No, none of the HP comms test sets can write to Linear Flash PCMCIA cards or other FLASH or EEPROM cards. They can only write to RAM cards. Writing to "Linear Flash" cards can be an issue in any case as there a many variations in them. First is if they need 12V or just 5V then some have different memeory configurations.Best to get a NV RAM card and then back it up to a PC. One other option if you have HPIB connected is to use a external drive simulator like HPdrive http://www.hp9845.net/9845/projects/hpdrive/

Robert G8RPI.

From: "blaze_1024@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Saturday, 30 September 2017, 22:49
Subject: [hp8924] Re: Flash card experiment

Hi, Joe.
I know this is an old post but there seems to be a serious lack of information regarding HP's compatibility with these cards. So now I'm confused I thought the E8285 could read and write to linear flash.  I have a chance to pick up a 4mb linear flash card for $10, I guess the only way I will find out is to actually buy one and see what I can figure out.

I'm out of memory on my test set and still have tons of test configurations I need to store. I hate manually reconfiguring the test set every time I need to do a test. It's just so much simpler to set it up once and save the setup for future recall. The other issue is the limited filename length makes it difficult to assign names to test configurations that make it easy to remember what they do. so I've started a spreadsheet that lists all the test configurations I've programmed and what they are intended for.

So the question of the day,  Does the e8285a actually support read-write to Intel series 2 linear flash cards.

# 2637. Re: [hp8924] 8924C Signal Generator and Tracking Gen don't agree

Yahoo group: hp8924
Date: 2017-10-03 04:09:55 UTC
From: matt.ames7bc@...
Topic: 2620  Message: 2637

Ahh of course - you are right!

The inbuilt signal generator officially only goes up to +3dBm. Using a second power meter I saw a maximum of +7dBm output.

Cheers,
Matt

# 2638. Re: [hp8924] Digest Number 826

Yahoo group: hp8924
Date: 2017-10-03 20:47:29 UTC
From: rbarrioss@...
Topic: 2632  Message: 2638

Hi. I can't say about the flash mod but I did the LCD conversion to my 8920:

http://www.rbarrios.com/projects/8920LCD/ http://www.rbarrios.com/projects/8920LCD/

Absolutely recommended.

Regards,
Roberto EB4EQA

# 2639. Re: Digest Number 826

Yahoo group: hp8924
Date: 2017-10-04 01:34:22 UTC
From: Clif Holland
Topic: 2632  Message: 2639

Very nice Roberto... I've bookmarked it for future reference.

--

Clif Holland KA5IPF
www.avvid.com
214-850-0973

# 2640. Re: [hp8924] Digest Number 826

Yahoo group: hp8924
Date: 2017-10-04 04:11:54 UTC
From: blaze_1024@...
Topic: 2632  Message: 2640

That's slick, You did a great job. I really like the green on black display. Other than looking nice it's also easier to read, the Human eye is most sensitive to green light which really helps if your vision isn't up to par.

I'm definitely going to do this with the E8285a. Even though LCD's aren't nearly as prone to burn in as other types of displays I really wish there was a way to implement a screen saver as I sometimes leave my test gear powered up all day and I just prefer if the screen would power down, I might consider implementing an external switch to turn off the display.

I haven't had much time to study the E8285 service manual so I'm not sure if and where and I can pick off a suitable video signal inside the unit.

# 2641. Latest version of 8924 software

Yahoo group: hp8924
Date: 2017-10-06 06:56:15 UTC
From: matt.ames7bc@...
Topic: 2641  Message: 2641

Hi all,

What is the latest version of 8924 software that is available? I have an 8924C with A.08.04 and I would like to know if there is anything later available to upgrade to?

I assume the upgrade is loaded onto a PCMCIA card and run from there?

Cheers,
Matt

# 2642. Re: Latest version of 8924 software

Yahoo group: hp8924
Date: 2017-10-10 01:12:14 UTC
From: willcoele@...
Topic: 2641  Message: 2642

I could be wrong but I remember reading in earlier conversations that some analog features were removed in later versions.

# 2643. Re: Latest version of 8924 software

Yahoo group: hp8924
Date: 2017-10-13 12:37:20 UTC
From: jyelmgren@...
Topic: 2641  Message: 2643

I think you are confusing this with one of the follow-on products to the 8924C which did limit the frequency range on the Agilent version/later firmware vs. the HP version / older firmware. There are a number of threads about this in the group.

The version you have looks fairly late ...I have had a number of 8924C's and 8.XX was about the latest I had seen. Most are in the 6.XX range which is the one I have on the bench now.

For what the 8924C is used for anymore doubt that updating the firmware would help much since I suspect the changes were mostly around the cellular functionality which is obsolete anyway.

# 2644. Re: Latest version of 8924 software

Yahoo group: hp8924
Date: 2017-10-16 05:26:46 UTC
From: matt.ames7bc@...
Topic: 2641  Message: 2644

Yes, very true - I guess I was just trying to have the "latest and greatest"

The earlier model has the HP branding still in it - my version 8 unit has Agilent on the main screen, it will be nice to have a classic HP unit :)

Cheers,
Matt

# 2645. Re: [hp8924] Re: Latest version of 8924 software

Yahoo group: hp8924
Date: 2017-10-16 18:44:30 UTC
From: Ralph Mowery
Topic: 2641  Message: 2645

I have 3 of the 8924C units.
One has the A.08.04 software with a copyright of 1990-2001 and Agilent Technologies on the screen.
The other 2 have A.06.03 software and copyright of 1990-1999 and the HP on the screen.
I have not paid much attention to the units to see if there is any difference in them for the analog portion.  As the cell phone is out of date and I never used them for cell phones (they were long gone when I got the 8924c).

From: "matt.ames7bc@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Monday, October 16, 2017 1:26 AM
Subject: [hp8924] Re: Latest version of 8924 software

<!--#yiv8125095638 #yiv8125095638 .yiv8125095638ygrp-photo-title{clear:both;font-size:smaller;min-height:15px;overflow:hidden;text-align:center;width:75px;}#yiv8125095638 div.yiv8125095638ygrp-photo{background-position:center;background-repeat:no-repeat;background-color:white;border:1px solid black;min-height:62px;width:62px;}#yiv8125095638 div.yiv8125095638photo-title a, #yiv8125095638 div.yiv8125095638photo-title a:active, #yiv8125095638 div.yiv8125095638photo-title a:hover, #yiv8125095638 div.yiv8125095638photo-title a:visited {text-decoration:none;}#yiv8125095638 div.yiv8125095638attach-table div.yiv8125095638attach-row {clear:both;}#yiv8125095638 div.yiv8125095638attach-table div.yiv8125095638attach-row div {float:left;}#yiv8125095638 p {clear:both;padding:15px 0 3px 0;overflow:hidden;}#yiv8125095638 div.yiv8125095638ygrp-file {width:30px;}#yiv8125095638 div.yiv8125095638attach-table div.yiv8125095638attach-row div div a {text-decoration:none;}#yiv8125095638 div.yiv8125095638attach-table div.yiv8125095638attach-row div div span {font-weight:normal;}#yiv8125095638 div.yiv8125095638ygrp-file-title {font-weight:bold;}#yiv8125095638 --> <!--#yiv8125095638 #yiv8125095638ygrp-mkp {border:1px solid #d8d8d8;font-family:Arial;margin:10px 0;padding:0 10px;}#yiv8125095638 #yiv8125095638ygrp-mkp hr {border:1px solid #d8d8d8;}#yiv8125095638 #yiv8125095638ygrp-mkp #yiv8125095638hd {color:#628c2a;font-size:85%;font-weight:700;line-height:122%;margin:10px 0;}#yiv8125095638 #yiv8125095638ygrp-mkp #yiv8125095638ads {margin-bottom:10px;}#yiv8125095638 #yiv8125095638ygrp-mkp .yiv8125095638ad {padding:0 0;}#yiv8125095638 #yiv8125095638ygrp-mkp .yiv8125095638ad p {margin:0;}#yiv8125095638 #yiv8125095638ygrp-mkp .yiv8125095638ad a {color:#0000ff;text-decoration:none;}-->

Yes, very true - I guess I was just trying to have the "latest and greatest"
The earlier model has the HP branding still in it - my version 8 unit has Agilent on the main screen, it will be nice to have a classic HP unit :)
Cheers,
Matt

# 2646. Re: [hp8924] Re: Latest version of 8924 software

Yahoo group: hp8924
Date: 2017-10-17 02:05:08 UTC
From: willard561@...
Topic: 2641  Message: 2646

Anyone thought of contacting Amtronix on which firmware is the best for our use?

# 2647. Re: [hp8924] Re: Latest version of 8924 software

Yahoo group: hp8924
Date: 2017-10-18 20:37:46 UTC
From: willcoele@...
Topic: 2641  Message: 2647

When I purchased my 8924C locally, it had BATA software. I found a two card A.06.33 upgrade on eBay. I was wondering if there are any changes in the DECODER menu. I normally use the function generator and Digi-Page.

# 2648. HP 8935 E6380A CDMA version

Yahoo group: hp8924
Date: 2017-12-05 18:45:23 UTC
From: Ralph
Topic: 2648  Message: 2648

Hi all

I have a HP8935 that has lost its programing. What I mean by that is it boots and passes all self tests.

The normal screens show up but it does not generate or receive any signals.

The tcxo does generate 10Mhz.

This started after I replaced the switcher supply which had failed. I was able to purchase a replacement on ebay.

All voltages check out.

I think the memory battery is bad and when I replaced the supply I had to disconnect the backup 3 volt battery that

Is mounted on the rear of the the unit. When you unplug the connectors, you disconnect the battery.

The card in question I believe that holds the Ram data including IBasic, RF Tools is "Memory/SBRC assy A2A30.

The memory battery is a CR2477 solder tab style that is no longer available. I have found others that will work.

I will order a new one./

My question is does anyone have the software available on a PCMCIA card and instructions for loading/saving same.

Thank you for reading

Ralph, W7HSG

520-444-6610

---
This email has been checked for viruses by Avast antivirus software.
https://www.avast.com/antivirus

# 2649. Re: [hp8924] HP 8935 E6380A CDMA version

Yahoo group: hp8924
Date: 2017-12-05 19:03:39 UTC
From: fwbray@...
Topic: 2648  Message: 2649

Ralph,

Sorry that I don't have the firmware backup.

I am not sure that loss of the firmware necessarily reflects an issue with the memory card. I had a backup battery issue and I replaced the coin cell on that card -- installing a socket for the replacement as there was plenty of room. The first time I powered the unit up again, I noticed that it automatically reloaded the data. Also, there is a jumper on the memory card for the backup battery. When it is in the "off" position, the unit works normally except that it reloads data every time and won't save the user specified data.

If I recall, there is also a backup battery on another card -- the CPU card I think. Maybe that one affects the firmware? I don't know.

Fred
KE6CD

# 2650. Re: [hp8924] HP 8935 E6380A CDMA version

Yahoo group: hp8924
Date: 2017-12-06 16:01:34 UTC
From: W Private
Topic: 2648  Message: 2650

I have a HP 8935 CDMA VersionI do not think this is what you are after but anyway:
I have two PCMCIA Cards for the 8935I have never used them.They are labeled:
8935 Lucent AMPS Base Station Test Software
One is:Agilent E6385A Rev. B.03.00 And Other is:Agilent E6385A Rev. B.03.01
I also have a Centennial (I suppose the cell phone company)SRAM Recharge PC Card that came with the unitHave no idea what is on it.
Wally KC9INK

# 2651. RE: [hp8924] HP 8935 E6380A CDMA version

Yahoo group: hp8924
Date: 2017-12-06 21:51:49 UTC
From: Ralph
Topic: 2648  Message: 2651
Attachments: 3 described; binary payloads are missing from this source WARC

I will pass for now. I need to replace the batteries in both the Ram and CPU and then see where I am.

I will keep your email and see.

Thanks

Ralph

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com]
Sent: Wednesday, December 06, 2017 9:02 AM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] HP 8935 E6380A CDMA version

I have a HP 8935 CDMA Version

I do not think this is what you are after but anyway:

I have two PCMCIA Cards for the 8935

I have never used them.

They are labeled:

8935 Lucent AMPS

Base Station Test Software

One is:

Agilent E6385A Rev. B.03.00

And Other is:

Agilent E6385A Rev. B.03.01

I also have a Centennial (I suppose the cell phone company)

SRAM Recharge PC Card that came with the unit

Have no idea what is on it.

Wally KC9INK

---
This email has been checked for viruses by Avast antivirus software.
https://www.avast.com/antivirus

# 2652. Re: [hp8924] HP 8935 E6380A CDMA version

Yahoo group: hp8924
Date: 2017-12-06 22:20:21 UTC
From: F. W. Bray
Topic: 2648  Message: 2652

Talk to Rick at amtronix.com. He may be able to help you.

I purchased a couple modules from him and I recall that some contained the calibration data and some required that it be loaded from a card.

He services a lot of the 89XX units and has been helpful in the past.

KE6CD

> On Dec 6, 2017, at 1:51 PM, 'Ralph' w7hsg@... [hp8924] <hp8924@yahoogroups.com> wrote:
>
>
>
> I will pass for now. I need to replace the batteries in both the Ram and CPU and then see where I am.
> I will keep your email and see.
> Thanks
> Ralph
>
> From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com]
> Sent: Wednesday, December 06, 2017 9:02 AM
> To: hp8924@yahoogroups.com
> Subject: Re: [hp8924] HP 8935 E6380A CDMA version
>
>
>
> I have a HP 8935 CDMA Version
> I do not think this is what you are after but anyway:
>
> I have two PCMCIA Cards for the 8935
> I have never used them.
> They are labeled:
>
> 8935 Lucent AMPS
> Base Station Test Software
>
> One is:
> Agilent E6385A Rev. B.03.00
> And Other is:
> Agilent E6385A Rev. B.03.01
>
> I also have a Centennial (I suppose the cell phone company)
> SRAM Recharge PC Card that came with the unit
> Have no idea what is on it.
>
> Wally KC9INK

>
>
>
> This email has been checked for viruses by Avast antivirus software.
> www.avast.com
>
>
>
>
>

# 2653. RE: [hp8924] HP 8935 E6380A CDMA version

Yahoo group: hp8924
Date: 2017-12-07 00:02:54 UTC
From: Ralph
Topic: 2648  Message: 2653
Attachments: 4 described; binary payloads are missing from this source WARC

Rick is on the list after I get new batteries installed.

I have purchased from him and had him do repairs for me.

A good guy.

Thanks

Ralph

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com]
Sent: Wednesday, December 06, 2017 3:20 PM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] HP 8935 E6380A CDMA version

Talk to Rick at amtronix.com. He may be able to help you.

I purchased a couple modules from him and I recall that some contained the calibration data and some required that it be loaded from a card.

He services a lot of the 89XX units and has been helpful in the past.

KE6CD

On Dec 6, 2017, at 1:51 PM, 'Ralph' w7hsg@comcast.net [hp8924] <hp8924@yahoogroups.com> wrote:

I will pass for now. I need to replace the batteries in both the Ram and CPU and then see where I am.

I will keep your email and see.

Thanks

Ralph

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com]
Sent: Wednesday, December 06, 2017 9:02 AM
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] HP 8935 E6380A CDMA version

I have a HP 8935 CDMA Version

I do not think this is what you are after but anyway:

I have two PCMCIA Cards for the 8935

I have never used them.

They are labeled:

8935 Lucent AMPS

Base Station Test Software

One is:

Agilent E6385A Rev. B.03.00

And Other is:

Agilent E6385A Rev. B.03.01

I also have a Centennial (I suppose the cell phone company)

SRAM Recharge PC Card that came with the unit

Have no idea what is on it.

Wally KC9INK

---

<https://www.avast.com/antivirus> Image removed by sender. Avast logo

This email has been checked for viruses by Avast antivirus software.
www.avast.com <https://www.avast.com/antivirus>

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This email has been checked for viruses by Avast antivirus software.
https://www.avast.com/antivirus

# 2654. Re: HP 8935 E6380A CDMA version

Yahoo group: hp8924
Date: 2017-12-07 01:30:11 UTC
From: zl1cvd@...
Topic: 2648  Message: 2654

Ralph. The firmware for this and all models in the series (8935, E8285A, 8920, 8921, 8922, 8924) is stored in EEPROM. Replacing battery backup batteries will not cause the error you describe. The backup battery only holds some screen defaults / settings and such. Its certainly not an Icom transceiver which looses everything when power is lost to its SRAM!

A prior setting could possibly stop some functions from working - pressing preset should clear that.

If you have changed the power supply, then the most likely cause is the PLL's are not locking on various modules (HP Calls this "Out Of Lock" OOL LEDs) - probably due to a voltage rail being out, a dry cap pulling supply rail/s down or a tanalum being a pig. Can even be caused by modules being moved - dust and such on the connectors. The first thing I always do is remove everything and get stuck in with a vacuum cleaner. Then compressed air. Then clean all those connectors. 1/2 the time this fixes the problem.

Grab hold of the E6380-90015 E6380A Assembly Level Repair manual and work your way through Manual Trouble Shooting Procedures Page 75.

73s de chris zl1cvd.

# 2655. OT IFR 1200S

Yahoo group: hp8924
Date: 2017-12-21 18:52:11 UTC
From: ku4pt@...
Topic: 2655  Message: 2655

There does not seem to be a group dedicated to the IFR equipmant other than one that does not seem to be very active.

I was hoping that someone here may be familiar with the IFR 1200S and could answer a question I have.

On the back is a BNC for the time base. The book says it switches automatically from in to out. It does not seem to say how much I need to drive it with.

The object is to feed it a 10 MHz signal from one of the GPS type of time base signals.

I have a 8924C and tried feeding it in but the GPS signal is some what jittery and the 8924C will take that signal,but the output jumps around about 100 Hz at 999 MHz out of the 8924c.

# 2656. Re: OT IFR 1200S

Yahoo group: hp8924
Date: 2017-12-21 19:13:48 UTC
From: dave@...
Topic: 2655  Message: 2656

The external 10 MHz reference signal needs to exceed 5V p-p.

Dave N8IT

# 2657. Re: [hp8924] OT IFR 1200S

Yahoo group: hp8924
Date: 2017-12-21 19:41:29 UTC
From: george
Topic: 2655  Message: 2657

Your problem appears to be more to do with an unstable GPSDO output than the input level of the IRF 1200S.

I see from a posting from Dave N8IT that the input required is in excess of 5V p-p, Most GPSDO's give either a sine wave output or a TTL logic level output which is under 5V p-p.

The phase jitter on the cheaper GPSDO's is horrendous.

73 George G6HIG

---
From: hp8924@yahoogroups.com <hp8924@yahoogroups.com> on behalf of ku4pt@... [hp8924] <hp8924@yahoogroups.com>
Sent: 21 December 2017 18:52
To: hp8924@yahoogroups.com
Subject: [hp8924] OT IFR 1200S

There does not seem to be a group dedicated to the IFR equipmant other than one that does not seem to be very active.

I was hoping that someone here may be familiar with the IFR 1200S and could answer a question I have.

On the back is a BNC for the time base. The book says it switches automatically from in to out. It does not seem to say how much I need to drive it with.

The object is to feed it a 10 MHz signal from one of the GPS type of time base signals.

I have a 8924C and tried feeding it in but the GPS signal is some what jittery and the 8924C will take that signal,but the output jumps around about 100 Hz at 999 MHz out of the 8924c.

# 2658. Re: [hp8924] OT IFR 1200S

Yahoo group: hp8924
Date: 2017-12-21 23:06:42 UTC
From: Ralph Mowery
Topic: 2655  Message: 2658

Thanks to Dave about the 1200s needing the 5 volts.  I don't have that much and probably will not build an amp to boost it up.  That seems to be about 1/4 to 1/2 of a watt into 50 ohms.Did not want to put in too much and blow something out.
The inexpensive GPSDO I am using was from someone on ebay that pulled it out of a new drone. One of the NEO 7 modules.  I think I paid about $ 9 for it.  Looking at it with a S/A the 10 MHz signal is very dirty.  This unit has an output pulse that looks sort of like a sine wave with bumps in it.  It feeds a LED and the frequency can be set from about 1 Hz to around 10 MHz.  When I first saw the units I thought it might be possible to set them to a frequency and use them instead of a crystal to drive an FM transmitter.  After looking at the wave for with a SA I decided that would not work for me.  I did want to use them as a GPSDO to set frequencies.
I did use the oscilloscope method of feeding a 100 MHz scope channel 1 with the GPSDO and the other channel with the 10 MHz out of the 8924c and just triggering with channel 1.
Doing that to 2 of the 8924Cs and then hooking them together showed them to be right on at 999 MHz with the last digit blinking from a 0 to a 1.
That should be good enough for ham work..
Thanks and 73 to all.

From: "george g_einst@... [hp8924]" <hp8924@yahoogroups.com>
To: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
Sent: Thursday, December 21, 2017 2:41 PM
Subject: Re: [hp8924] OT IFR 1200S

Your problem appears to be more to do with an unstable GPSDO output than the input level of the IRF 1200S.

I see from a posting from Dave N8IT that the input required is in excess of 5V p-p,  Most GPSDO's give either a sine wave output or a TTL logic level output which is under 5V p-p.

The phase jitter on the cheaper GPSDO's is horrendous.

73 George G6HIG

---

# 2659. Re: [hp8924] OT IFR 1200S

Yahoo group: hp8924
Date: 2017-12-21 23:47:35 UTC
From: dave@...
Topic: 2655  Message: 2659

Thats 5V peak to peak, per IFR. That would be close to 18dbm into 50 ohms.

Dave N8IT

# 2660. Re: [hp8924] OT IFR 1200S

Yahoo group: hp8924
Date: 2017-12-22 00:36:12 UTC
From: Ralph Mowery
Topic: 2655  Message: 2660

Thanks Dave.  I was probably thinking of 5 V rms.
The 18 dbm will be easy for me to see on the 8924c.  One of the China amp blocks may make that for a few bucks if I ever decide to try that. I think the module I have will do about 0 to 3 dbm.
73

From: "dave@... [hp8924]" <hp8924@yahoogroups.com>
To: hp8924@yahoogroups.com
Sent: Thursday, December 21, 2017 6:47 PM
Subject: Re: [hp8924] OT IFR 1200S

#yiv2180547450 #yiv2180547450 -- #yiv2180547450 .yiv2180547450ygrp-photo-title{clear:both;
font-size:smaller;min-height:15px;overflow:hidden;text-align:center;width:75px;}#yiv218054
7450 div.yiv2180547450ygrp-photo{background-position:center;background-repeat:no-repeat;ba
ckground-color:white;border:1px solid black;min-height:62px;width:62px;}#yiv2180547450
div.yiv2180547450photo-title a, #yiv2180547450 div.yiv2180547450photo-title a:active,
#yiv2180547450 div.yiv2180547450photo-title a:hover, #yiv2180547450
div.yiv2180547450photo-title a:visited {text-decoration:none;}#yiv2180547450
div.yiv2180547450attach-table div.yiv2180547450attach-row {clear:both;}#yiv2180547450
div.yiv2180547450attach-table div.yiv2180547450attach-row div {float:left;}#yiv2180547450
p {clear:both;padding:15px 0 3px 0;overflow:hidden;}#yiv2180547450
div.yiv2180547450ygrp-file {width:30px;}#yiv2180547450 div.yiv2180547450attach-table
div.yiv2180547450attach-row div div a {text-decoration:none;}#yiv2180547450
div.yiv2180547450attach-table div.yiv2180547450attach-row div div span
{font-weight:normal;}#yiv2180547450 div.yiv2180547450ygrp-file-title
{font-weight:bold;}#yiv2180547450 #yiv2180547450 #yiv2180547450 #yiv2180547450
--#yiv2180547450ygrp-mkp {border:1px solid #d8d8d8;font-family:Arial;margin:10px
0;padding:0 10px;}#yiv2180547450 #yiv2180547450ygrp-mkp hr {border:1px solid
#d8d8d8;}#yiv2180547450 #yiv2180547450ygrp-mkp #yiv2180547450hd
{color:#628c2a;font-size:85%;font-weight:700;line-height:122%;margin:10px
0;}#yiv2180547450 #yiv2180547450ygrp-mkp #yiv2180547450ads
{margin-bottom:10px;}#yiv2180547450 #yiv2180547450ygrp-mkp .yiv2180547450ad {padding:0
0;}#yiv2180547450 #yiv2180547450ygrp-mkp .yiv2180547450ad p {margin:0;}#yiv2180547450
#yiv2180547450ygrp-mkp .yiv2180547450ad a
{color:#0000ff;text-decoration:none;}#yiv2180547450

Thats 5V peak to peak, per IFR.  That would be close to 18dbm into 50 ohms.

Dave N8IT

# 2661. Re: [hp8924] OT IFR 1200S

Yahoo group: hp8924
Date: 2017-12-22 07:15:28 UTC
From: Robert Atkinson
Topic: 2655  Message: 2661

The IFR 1200S is looking for a TTL signal or similar level sinewave.The "on-board" frequency generators provided by the latest GPS module are no substitute for a GPSDO. Best method is to trigger the 'scope from the 1pps output with the units 10MHz on the other channel and adjust the units internal oscillator for zero drift of the waveform. This assumes it's already close to 10MHz .
Robert G8RPI.

# 2662. HP 8935 using rf bridge

Yahoo group: hp8924
Date: 2018-01-02 16:26:20 UTC
From: wallydoc@...
Topic: 2662  Message: 2662

This is probably a dumb question:
I hooked up a RF bridge to my HP 8935 service monitor and get a lot of peaks and valleys on the return loss using high quality 50 ohm loads. 0-1GHz.
A good quality coax between Duplex and RF input or antenna input gives a straight line on spectrum analyzer.
I did not go through the RF tools calibration since I do not possess all the necessary parts such as the attenuators and RF power splitter.
The RF bridge works fine on my Marconi spectrum analyzer 0-400 MHz and has been tested to well over 1 GHz on other spectrum analyzer.
Is this normal??
Wally KC9INK

# 2663. RE: [hp8924] HP 8935 using rf bridge

Yahoo group: hp8924
Date: 2018-01-02 18:45:21 UTC
From: Adam Farson
Topic: 2662  Message: 2663
Attachments: 2 described; binary payloads are missing from this source WARC

Hi Wally,

Did you place 6 dB pads in the cables from the 8935 DUPLEX OUT and ANT IN sockets to the bridge input and output, respectively?

I do not have this problem with an Amtronix return-loss bridge. I use the 6 dB pads as shown in the mimic diagram on the screen.

73, Adam VA7OJ/AB4OJ

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com]
Sent: 02 January, 2018 08:26
To: hp8924@yahoogroups.com
Subject: [hp8924] HP 8935 using rf bridge

This is probably a dumb question:

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The RF bridge works fine on my Marconi spectrum analyzer 0-400 MHz and has been tested to well over 1 GHz on other spectrum analyzer.

Is this normal??

Wally KC9INK

# 2664. Re: [hp8924] HP 8935 using rf bridge

Yahoo group: hp8924
Date: 2018-01-02 20:04:16 UTC
From: W Private
Topic: 2662  Message: 2664

No I did not use the attenuators, I do not have them, I was wondering if they are absolutely necessary, Maybe they are.Wally KC9INK

On Tuesday, January 2, 2018 1:45 PM, "'Adam Farson' farson@... [hp8924]" <hp8924@yahoogroups.com> wrote:

Hi Wally,  Did you place 6 dB pads in the cables from the 8935 DUPLEX OUT and ANT IN sockets to the bridge input and output, respectively?  I do not have this problem with an Amtronix return-loss bridge. I use the 6 dB pads as shown in the mimic diagram on the screen.  73, Adam VA7OJ/AB4OJ  From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com]
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# 2665. Re: [hp8924] HP 8935 using rf bridge

Yahoo group: hp8924
Date: 2018-01-02 20:18:51 UTC
From: Robert Atkinson
Topic: 2662  Message: 2665

Hi,You do not need to use the 6dB attenuators. They improve the match of the test set's ports and thus overall performance if you have a good bridge. You do need to run the calibration if you are using RF tools. You just need an open, short and load. As it's not a vector analyser homemade open and short are OK, but the load should be the best you have. If you run the test set as a "live" SA and TG with the bridge you don't need calibration other than to set the amplitude scaling.

Robert G8RPI

From: "W Private wallydoc@... [hp8924]" <hp8924@yahoogroups.com>
To: "hp8924@yahoogroups.com" <hp8924@yahoogroups.com>
Sent: Tuesday, 2 January 2018, 20:04
Subject: Re: [hp8924] HP 8935 using rf bridge

No I did not use the attenuators, I do not have them, I was wondering if they are absolutely necessary, Maybe they are.Wally KC9INK

On Tuesday, January 2, 2018 1:45 PM, "'Adam Farson' farson@... [hp8924]" <hp8924@yahoogroups.com> wrote:

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Sent: 02 January, 2018 08:26
To: hp8924@yahoogroups.com
Subject: [hp8924] HP 8935 using rf bridge

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# 2666. RE: [hp8924] HP 8935 using rf bridge

Yahoo group: hp8924
Date: 2018-01-02 20:33:06 UTC
From: Adam Farson
Topic: 2662  Message: 2666

Hi Wally,

Yes, they are most definitely required, so as to present both the 8935 and the bridge with a known resistive load and to provide isolation between the instrument and the bridge.

RF Parts has JFW N-type fixed pads at reasonable prices. Mini-Circuits also offers N-type fixed attenuators which are fairly inexpensive. Careful shopping on eBay (look for quality brands) is also an option.

73, Adam VA7OJ/AB4OJ

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com]
Sent: 02 January, 2018 12:04
To: hp8924@yahoogroups.com
Subject: Re: [hp8924] HP 8935 using rf bridge

No I did not use the attenuators, I do not have them, I was wondering if they are absolutely necessary, Maybe they are.

Wally KC9INK

On Tuesday, January 2, 2018 1:45 PM, "'Adam Farson' farson@... [hp8924]" <hp8924@yahoogroups.com> wrote:

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From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com]
Sent: 02 January, 2018 08:26
To: hp8924@yahoogroups.com
Subject: [hp8924] HP 8935 using rf bridge

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The RF bridge works fine on my Marconi spectrum analyzer 0-400 MHz and has been tested to well over 1 GHz on other spectrum analyzer.

Is this normal??

Wally KC9INK

# 2667. Re: OT IFR 1200S

Yahoo group: hp8924
Date: 2018-01-16 21:50:37 UTC
From: jyelmgren@...
Topic: 2655  Message: 2667

a 0dbm external reference level is what I have used to test the 1200S.

Should be in the manual .

5volt p-p sounds way too high.

# 2668. Re: OT IFR 1200S

Yahoo group: hp8924
Date: 2018-01-16 22:38:11 UTC
From: jyelmgren@...
Topic: 2655  Message: 2668

actually it does need +5dbm according to the latest manual.

This should be roughly 1V p-p

# 2669. Re: OT IFR 1200S

Yahoo group: hp8924
Date: 2018-01-17 01:10:47 UTC
From: dave@...
Topic: 2655  Message: 2669

From the IFR FM/AM-1200S/A manual, Revision 2 dated May 15 1987 that I have:

A level detect circuit determines when an external 10 MHz reference signal of sufficient amplitude is present on the External Reference Connector and responds by deactivating the TCXO and coup1es the external 10 MHz reference signal to the frequency divider.

When an external 10 MHz reference signal exceeding 5 V p-p is applied through the External Reference Connector to NAND gate U2802, a level detector , consisting of op amp U2801 and associated components, produces a constant high, turning off 42801 and interrupting power to the TCXO. The high output of U2801 is also fed to U2802, passing the external 10 MHz reference signal to the frequency divider circuit.

# 2670. Feet for the HP 8924c

Yahoo group: hp8924
Date: 2018-03-19 03:38:04 UTC
From: ea5125ure@...
Topic: 2670  Message: 2670

Hi,

My unit came without feet or such and I intend to put it on top of a rack cabinet possibly... I don't want to scratch the powder coating of the cabinet and I need to leave some ventilation space between the 8924c and the rack.

How can I fix legs, 3d printed or machined, to the unit? Do I need to completely disassemble it?

Thanks!

# 2671. Re: Feet for the HP 8924c (5041-9167 + stands 1460-1345)

Yahoo group: hp8924
Date: 2018-03-19 23:39:16 UTC
From: zl1cvd@...
Topic: 2670  Message: 2671

The feet are: HP/Agilent 5041-9167 Instrument Feet with 1460-1345 stands , lock clips. Chap in Malasia sells them new on eBay - search for those two part numbers as he often sells out and relists. I have purchased many from him and they work on 8924, 8920, E8285A, E4406A, Etc. 73s de chris zl1cvd

# 2672. Push Buttons

Yahoo group: hp8924
Date: 2018-04-17 02:40:27 UTC
From: alw.k9si@...
Topic: 2672  Message: 2672

Most of the buttons on my 8924 don't want to respond unless they are pushed up to at least 50 times. Is this common? Is there a fix?

Al

# 2673. Disassembly Instructions

Yahoo group: hp8924
Date: 2018-04-17 03:30:34 UTC
From: patrick_mulcahy@...
Topic: 2673  Message: 2673

Can someone point me to the disassembly procedures please? I need to replace my power supply.

Thanks!

Pat

# 2674. Re: Disassembly Instructions

Yahoo group: hp8924
Date: 2018-04-17 06:30:47 UTC
From: robert8rpi@...
Topic: 2673  Message: 2674

Hi,
The service manual is in the files section. This has details.

Robert G8RPI.

# 2675. Re: Push Buttons

Yahoo group: hp8924
Date: 2018-04-17 06:29:27 UTC
From: robert8rpi@...
Topic: 2672  Message: 2675

Hi. they are conductive rubber type. First thing to try is dis-assembly and gentle cleaning of board and rubber pads. I use a lint free cloth moistened with IPA. Don't apply solvent directly you carbon loaded surfaces unless you are sure they are compatible. If that does not work you can get conductive paint to put on the rubber pads. search for TV remote control button repair.

HTH,
Robert G8RPI.

# 2676. Re: [hp8924] Disassembly Instructions

Yahoo group: hp8924
Date: 2018-04-17 14:40:14 UTC
From: Ralph Mowery
Topic: 2673  Message: 2676

You may want to look at this You tube video on the supply.  Often it is just a few capacitors that need replacing.  I have replaced some in one of mine to get it going.  I think in the files section here is a guide to replacing some of the capacitors.
There are some cautions about not running the 8924 with the cover off for any long period of time.

HP 8924C Power Supply Problem Repair

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| |
HP 8924C Power Supply Problem Repair

HP 8924C Power Supply Problem Repair
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|

Take the feet off the back and several other screws you will see.  Then remove the handle straps on each side.  Under them is about 6 or 8 screws on each side.  The top should slide off the back.  Remove the cover on the back side where the supply is located. Lots of screws there. There are some screws holding the supply to the case.  There are 2 plugs to the supply.  Remove them and the supply should be free to come out.  You probably can pull the supply up to remove the plugs.
Try to keep up with which screw comes out of which hole.
A power screwdriver of some kind will be a big help as there are lots of screws.  Mostly two sizes of the torx type.While the case is off you may want to take an air hose and blow out some of the dust.

On Monday, April 16, 2018, 11:30:45 PM EDT, patrick_mulcahy@... [hp8924] <hp8924@yahoogroups.com> wrote:

Can someone point me to the disassembly procedures please?  I need to replace my power supply.

Thanks!

Pat

# 2677. Re: Push Buttons

Yahoo group: hp8924
Date: 2018-05-07 23:24:56 UTC
From: wallydoc@...
Topic: 2672  Message: 2677

Gentlemen: I do not know if this will work on these specific buttons, but here is what I did on my TV/DVR control buttons>>>

Went to Harbor Freight and bought a roll of aluminum tape. About eight bucks. Way too much tape.
Got a paper punch that cut small circles or dots. Punched out some dots.
Took off the paper backing to expose the glue side of the aluminum tape.
Put the dots on the carbon buttons.
Rubbed a bit with a smooth instrument to assure good stick.

Worked like a charm.

I tried just gluing aluminum foil to the conductive dots but could not find an acceptable glue. Some dots kept falling off. However this worked if the aluminum stuck.

Wally KC9INK

# 2678. Re: [hp8924] Re: Push Buttons

Yahoo group: hp8924
Date: 2018-05-08 00:06:21 UTC
From: Glenn Little WB4UIV
Topic: 2672  Message: 2678

I do not see the original post and nothing was quoted, so excuse me if I have missed the mark.

To properly repair the rubberized, carbon switch buttons, you use a kit designed to fix these.
Usually sold to repair PC controllers and TV remotes.

MG Chemical 8339 is one such repair kit.
This is available via Amazon and Digi-Key and probable others.
A search for membrane switch repair provides many hits.
The use of any of the stick on repair kits could cause a problem when the stick on part fall off.

Glenn

On 5/7/2018 7:24 PM, wallydoc@... [hp8924] wrote:
>
>
> Gentlemen:
> I do not know if this will work on these specific buttons, but here is
> what I did on my TV/DVR control buttons>>>
>
> Went to Harbor Freight and bought a roll of aluminum tape. About eight
> bucks. Way too much tape.
> Got a paper punch that cut small circles or dots. Punched out some dots.
> Took off the paper backing to expose the glue side of the aluminum tape.
> Put the dots on the carbon buttons.
> Rubbed a bit with a smooth instrument to assure good stick.
>
> Worked like a charm.
>
> I tried just gluing aluminum foil to the conductive dots but could not
> find an acceptable glue. Some dots kept falling off. However this
> worked if the aluminum stuck.
>
> Wally KC9INK
>
>
>
>

--
---
Glenn Little ARRL Technical Specialist QCWA LM 28417
Amateur Callsign: WB4UIV wb4uiv@... AMSAT LM 2178
QTH: Goose Creek, SC USA (EM92xx) USSVI LM NRA LM SBE ARRL TAPR

"It is not the class of license that the Amateur holds but the class of the Amateur that holds the license"

# 2679. HP 8935 schematic

Yahoo group: hp8924
Date: 2018-05-11 15:20:16 UTC
From: wallydoc@...
Topic: 2679  Message: 2679

Any source for HP 8934 schematic.??
Please note that file section is blank when I pull it up.
Wally KC9INK

# 2680. Re: HP 8935 schematic

Yahoo group: hp8924
Date: 2018-05-12 02:29:30 UTC
From: zl1cvd@...
Topic: 2679  Message: 2680

Never seen 8935 schematics. I'm not aware they were ever released. It uses some of the same modules as 8920/8921/8922/8924/E8285A. There is a release of the 8920 CLIP - Component Level Information Packet - full circuits of most of its modules. Its an old one so circuits are for 1st gen modules mainly - some 2nd gen. The manual part number is 08920-90107 - should be on the Keysight website - google the part.. 73s de chris zl1cvd

# 2681. Re: HP 8935 schematic

Yahoo group: hp8924
Date: 2018-05-12 02:44:03 UTC
From: Patrick Mulcahy
Topic: 2679  Message: 2681

Thanks Chris - Do you know which modules amoungst the varous HP monitors are identical?

Thanks!

Pat

# 2682. Re: HP 8935 schematic

Yahoo group: hp8924
Date: 2018-05-12 04:08:22 UTC
From: kb9jzy@...
Topic: 2679  Message: 2682
Attachments: 1 described; binary payloads are missing from this source WARC

I think the infomation is located here:

# 2683. Re: [hp8924] Re: HP 8935 schematic [1 Attachment]

Yahoo group: hp8924
Date: 2018-05-12 12:01:21 UTC
From: W Private
Topic: 2679  Message: 2683

Thanks to everyone who responded. I believe I blew two TVI protection diodes on the RF I/O assembly.They are 6V8A zeners at 5,8 V.They short to ground, There is no output from duplex or RF but ant in works OK, so these protection diodes may explain the fault.I did have the assembly level repair but not the old clip, which may help.Anyone know of a source for the diodes that does not involve ordering 100 or waiting for china delivery?Wally KC9INK
On Saturday, May 12, 2018, 12:08:43 AM EDT, kb9jzy@... [hp8924] <hp8924@yahoogroups.com> wrote:

  [Attachment(s) from kb9jzy@... [hp8924] included below]
I think the infomation is located here:

# 2684. Re: [hp8924] Re: HP 8935 schematic

Yahoo group: hp8924
Date: 2018-05-12 12:02:44 UTC
From: W Private
Topic: 2679  Message: 2684

Thanks Chris I believe I blew two TVI protection diodes on the RF I/O assembly.They are 6V8A zeners at 5,8 V.They short to ground, There is no output from duplex or RF but ant in works OK, so these protection diodes may explain the fault.I did have the assembly level repair but not the old clip, which may help.Anyone know of a source for the diodes that does not involve ordering 100 or waiting for china delivery?Wally KC9INK

On Friday, May 11, 2018, 10:29:38 PM EDT, zl1cvd@... [hp8924] <hp8924@yahoogroups.com> wrote:

Never seen 8935 schematics. I'm not aware they were ever released. It uses some of the same modules as 8920/8921/8922/8924/E8285A. There is a release of the 8920 CLIP - Component Level Information Packet - full circuits of most of its modules. Its an old one so circuits are for 1st gen modules mainly - some 2nd gen. The manual part number is 08920-90107 - should be on the Keysight website - google the part.. 73s de chris zl1cvd

# 2685. Re: [hp8924] Re: HP 8935 schematic

Yahoo group: hp8924
Date: 2018-05-13 02:34:52 UTC
From: zl1cvd@...
Topic: 2679  Message: 2685

I recall ordering some diodes from mouser or digikey. The 8920 CLIP covers things common like measurement, audio, IF, synth, spec an, etc. But not duplexer, cpu, ram, PSU. The assembly level is available for all models. Like the one sent by kb9jzy. So for an exact list, you'll need do some digging. Also, the block diagrams in the assembly level manuals for all models is good to have a look at as some give more details than others - for the same module. Good spotting & please report back with the exact fix is for out combined future reference. 73s om de chris zl1cvd

# 2686. Re: [hp8924] Re: HP 8935 schematic

Yahoo group: hp8924
Date: 2018-05-13 13:01:24 UTC
From: wallydoc@...
Topic: 2679  Message: 2686

Upon further investigation, the protection TVI diodes are OK. Removed one, tested and reinstalled. Appropriate voltage for Zener of about 5.8. However, I did order some though through a US source.
Here is my problem, I will try to be succinct.
The unit powers up without any error codes at all.
It does not put out any signal.
It does receive OK about 1.5 Dbm low. Frequency readings are OK.
The signal out does show up on the spectrum analyzer and varies somewhat with Dbm settings.
There is RF signal into the board that does vary a bit with the control.
Apparently the unit does have some control of the RF input to the I/O board and further signal strength changes are made with the attenuator.
Both relays on the RF I/O board or powered on no matter what. Changing input or output from RF I/O to antenna or duplex does not change the approx 5V control to the relays They do appear to work, turning on and off with a 5 V applied voltage with unit turned off.
The DC voltages on the attenuator are not varied with changing the Dbm strength of the signal.
On running RF tests on the machine, the voltages on the attenuator are likewise very wrong.
It appears as though there are no control signals going into the RF I/O board or something on the board is not interpreting the signals.
The voltages on the various attenuators does not change at all.

That is why I was looking for a schematic so I could identify the pin that would have the signal. Maybe the input to control the attenuators is not there or just wrong? Or a bad chip on the I/O board? Or maybe a bad EEPROM that stores attenuator settings? If I could analyze the attenuator signal coming in I might get closer to the problem.
The old schematics have I/O boards very different from the 8935.
Any suggestions?
I would try another I/O board but they are very expensive.

Wally KC9INK

# 2687. Re: [hp8924] Re: HP 8935 schematic

Yahoo group: hp8924
Date: 2018-05-13 13:01:41 UTC
From: wallydoc@...
Topic: 2679  Message: 2687

Upon further investigation, the protection TVI diodes are OK. Removed one, tested and reinstalled. Appropriate voltage for Zener of about 5.8. However, I did order some though through a US source.
Here is my problem, I will try to be succinct.
The unit powers up without any error codes at all.
It does not put out any signal.
It does receive OK about 1.5 Dbm low. Frequency readings are OK.
The signal out does show up on the spectrum analyzer and varies somewhat with Dbm settings.
There is RF signal into the board that does vary a bit with the control.
Apparently the unit does have some control of the RF input to the I/O board and further signal strength changes are made with the attenuator.
Both relays on the RF I/O board or powered on no matter what. Changing input or output from RF I/O to antenna or duplex does not change the approx 5V control to the relays They do appear to work, turning on and off with a 5 V applied voltage with unit turned off.
The DC voltages on the attenuator are not varied with changing the Dbm strength of the signal.
On running RF tests on the machine, the voltages on the attenuator are likewise very wrong.
It appears as though there are no control signals going into the RF I/O board or something on the board is not interpreting the signals.
The voltages on the various attenuators does not change at all.

That is why I was looking for a schematic so I could identify the pin that would have the signal. Maybe the input to control the attenuators is not there or just wrong? Or a bad chip on the I/O board? Or maybe a bad EEPROM that stores attenuator settings? If I could analyze the attenuator signal coming in I might get closer to the problem.
The old schematics have I/O boards very different from the 8935.
Any suggestions?
I would try another I/O board but they are very expensive.

Wally KC9INK

# 2688. Using external VGA monitor

Yahoo group: hp8924
Date: 2018-05-13 17:21:27 UTC
From: Paul Holm
Topic: 2688  Message: 2688

Hello,

Well, I made the mistake of turning 50 and now the display is getting harder to see. I'd like to connect an external monitor as some of you have done in the past. I looked at the group Files section but it is empty.

I have sifted through the archived messages but would like to know what the current thoughts are on this, using the converter boards that are presently available.

I've seen references to devices like this that are plug and play(?):

<https://www.ebay.com/itm/GBS-8219-XVGA-Box-CGA-EGA-RGB-RGBS-RGBHV-to-VGA-Monitor-Video-Converter-US-Ship/292409359883?hash=item4414f4be0b:g:NxgAAOSwaMhZydK3>

and also for 8200/8220 boards such this one that are far less expensive, but may(?) require some mods to achieve sync:

<https://www.ebay.com/itm/Video-Converter-CGA-EGA-YUV-RGB-TO-VGA-Arcade-Jamma-Game-Monitor-to-LCD-GBS-8220/172948685209?hash=item28448b8199:g:8CYAAOSwj99Z8con>

Is this still pretty much where we're at with connecting external vga monitors? or does anyone have any recommendations? Thanks.

73 Paul - KCØHST

# 2689. Re: Using external VGA monitor

Yahoo group: hp8924
Date: 2018-05-13 17:25:39 UTC
From: ob1kinobi1999@...
Topic: 2688  Message: 2689

You can use one of those converter boards and a sink chip if you want to do the soldering work and modifications or if you want you can get a Sony digital converter box there about $100 you might be able to find one cheaper or more expensive on eBay you should be able to look in the list at my articles I did a article on these as this is what I am using, I do have the circuit board in sink chip modification to as a backup but you don't have to have this with the Sony converter

# 2690. Re: [hp8924] Re: Using external VGA monitor

Yahoo group: hp8924
Date: 2018-05-13 17:37:29 UTC
From: Paul Holm
Topic: 2688  Message: 2690

I don't mind doing mods but wanted to explore options/costs. Do you have a link or a model number for the Sony units you mentioned?

On 5/13/2018 12:25 PM, ob1kinobi1999@... [hp8924] wrote:
> You can use one of those converter boards and a sink chip if you want to do the soldering work and modifications or if you want you can get a Sony digital converter box

# 2691. Re: [hp8924] Re: Using external VGA monitor

Yahoo group: hp8924
Date: 2018-05-13 17:41:07 UTC
From: ob1kinobi1999@...
Topic: 2688  Message: 2691

Sony dsc-1024

# 2692. Re: [hp8924] Re: Using external VGA monitor

Yahoo group: hp8924
Date: 2018-05-13 17:44:19 UTC
From: ob1kinobi1999@...
Topic: 2688  Message: 2692

https://groups.yahoo.com/neo/groups/hp8924/attachments/1337567895
https://groups.yahoo.com/neo/groups/hp8924/attachments/1337567895

here is a link to the pdf file I made on using the sony and how to make a cable

# 2693. Re: [hp8924] Using external VGA monitor

Yahoo group: hp8924
Date: 2018-05-13 20:12:23 UTC
From: Ralph Mowery
Topic: 2688  Message: 2693

Seems the files are gone for me in the user groups.
YOu can get a GBS 8200 converter board off ebay for about $ 20 and do a slight modification to it.  You will need a power supply and box to put it in.  There are 4 SMD resistors to add to the board.
To use the GBS-8200 converter with the hp-8924c service monitor.
Obtain:
LM1881N IC sync seperator.1 UF capacitor--2 required680 K  ohm resistor
To be mounted on the GBS8200 board will be 4 SMD 50 K ohm resistors.  Without the resistors the display will seem to work for about 30 seconds and fade out. That is what it did for me.
On the LM1881 connect pin 1 to the # 4 (gray wire) pin of the 8 pin RGBS input connector.Pin 2 to a .1 UF capacitor and then to  the Green input of the 8 pin RGBS connector A wire from that junction goes to the input from the 8924C.Pin 4 to ground.Pin 6 has a .1 UF and 680 K resistor in parallel to ground.Pin 8 goes to 5 volts.Pins 3,5,7 are not used.
The 4 SMD 50 K ohm resistors are soldered across capacitors 29,32,33, and 36 on the GBS8200 board.  They are in a row between the 3 pots and an IC.
This will provide a green video output to a VGA monitor.

On Sunday, May 13, 2018, 1:21:44 PM EDT, Paul Holm lists@... [hp8924] <hp8924@yahoogroups.com> wrote:

Hello,

Well, I made the mistake of turning 50 and now the display is getting harder to see.  I'd like to connect an external monitor as some of you have done in the past.  I looked at the group Files section but it is empty.

I have sifted through the archived messages but would like to know what the current thoughts are on this, using the converter boards that are presently available.

I've seen references to devices like this that are plug and play(?):

<https://www.ebay.com/itm/GBS-8219-XVGA-Box-CGA-EGA-RGB-RGBS-RGBHV-to-VGA-Monitor-Video-Converter-US-Ship/292409359883?hash=item4414f4be0b:g:NxgAAOSwaMhZydK3>

and also for 8200/8220 boards such this one that are far less expensive, but may(?) require some mods to achieve sync:

<https://www.ebay.com/itm/Video-Converter-CGA-EGA-YUV-RGB-TO-VGA-Arcade-Jamma-Game-Monitor-to-LCD-GBS-8220/172948685209?hash=item28448b8199:g:8CYAAOSwj99Z8con>

Is this still pretty much where we're at with connecting external vga monitors?  or does anyone have any recommendations?  Thanks.

73  Paul - KCØHST

# 2694. Re: [hp8924] Re: HP 8935 schematic

Yahoo group: hp8924
Date: 2018-05-14 02:50:16 UTC
From: zl1cvd@...
Topic: 2679  Message: 2694

So sounds like an issue with A2A130 which unfortunately is unique to 8935 (E6380/E6381) series. Firstly, the most common failure in the entire series is electrolytic caps! most go dry. All will need changing at some point. Also have seen Tant caps cause issues too - some go short so look out for this too. So page 287 of the assembly level repair guide gives us a block diagram anbd you can see what those 2 relays are doing . So make sure your supply rails are spot on then go into the service menu (RF Diags, RF in/out) and see if you can manually switch RF paths. You should be able to trace back to the serial decoder chip - also make sure the chip is getting data. Another thing to consider is replacement module from Amtronix. Hes excellent and knows this series through and through. Let us know how you get on. 73s chris zl1cvd

# 2695. Re: Using external VGA monitor

Yahoo group: hp8924
Date: 2018-05-14 15:11:43 UTC
From: Frank Hughes
Topic: 2688  Message: 2695
Attachments: 1 described; binary payloads are missing from this source WARC

Hi,I bought a Sony 1024HD from ebay for this, works great.
Seems like the "HD" had better resolution or ?? some feature I liked better than the 1024.Frank

# 2696. Re: [hp8924] Re: HP 8935 schematic

Yahoo group: hp8924
Date: 2018-05-15 00:06:54 UTC
From: W Private
Topic: 2679  Message: 2696

I think you are correct problem is on the RF I/O board, no schematics.I think the probable culprit is a silicon switch it is an 8 pin DIP surface mountAlpha Industries AC438Alpha is now SkyworksI cannot find a spec sheet on this part. I believe it is a silicon DPST switchI think I can order it but would like to see a spec sheet first with a diagram.Any suggestions?
On Sunday, May 13, 2018, 10:50:25 PM EDT, zl1cvd@... [hp8924] <hp8924@yahoogroups.com> wrote:

So sounds like an issue with A2A130 which unfortunately is unique to 8935 (E6380/E6381) series. Firstly, the most common failure in the entire series is electrolytic caps! most go dry. All will need changing at some point. Also have seen Tant caps cause issues too - some go short so look out for this too. So page 287 of the assembly level repair guide gives us a block diagram anbd you can see what those 2 relays are doing . So make sure your supply rails are spot on then go into the service menu (RF Diags, RF in/out) and see if you can manually switch RF paths. You should be able to trace back to the serial decoder chip - also make sure the chip is getting data. Another thing to consider is replacement module from Amtronix. Hes excellent and knows this series through and through. Let us know how you get on. 73s chris zl1cvd

# 2697. Re: [hp8924] Re: HP 8935 schematic

Yahoo group: hp8924
Date: 2018-05-15 02:43:08 UTC
From: zl1cvd@...
Topic: 2679  Message: 2697

No idea where to get datasheet for this. The older smd switches required both + and - supply rails to switch. Have you confirmed all supply rails 100% correct? I spent a couple of days hunting a PLL problem in one of this series only to find the +40V rail was being pulled down by a cap..

# 2698. Re: [hp8924] Re: HP 8935 schematic

Yahoo group: hp8924
Date: 2018-05-16 18:54:41 UTC
From: wallydoc@...
Topic: 2679  Message: 2698

Checked all the volts on input to the RF IO board. they are all OK. Checked all the bigger caps too.
I identified the silicon relays and one is working with - 8 volts control volts that switches between the control inputs. This relay that works is the one that switches from ant in to RF in. The unit does receive OK.
There is no signal out of the unit and the other silicon switches do not get the - 8 volt control. One of them gets a -8 V that does not switch to other control input.
I think that there is an IC that does this and cannot identify it. Cannot find where the neg 8 V control signal is coming from.
There are TTL waveforms that come into the unit, however I cannot really understand the intelligence. But no reason to think these are bad since everything else works.
There is a good signal coming into the RF IO unit about +12 to -2 dBM.
I think this is what the manual calls for, then the attenuators on the unit do the rest.
So far no luck with finding schematics for RF IO.
Thanks for the help.
Perhaps this is something I need Amtronix to fix for me.
Wally KC9INK

# 2699. Re: [hp8924] Re: HP 8935 schematic

Yahoo group: hp8924
Date: 2018-05-17 01:24:08 UTC
From: wallydoc@...
Topic: 2679  Message: 2699

Checked all the volts on input to the RF IO board. they are all OK. Checked all the bigger caps too.
I identified the silicon relays and one is working with - 8 volts control volts that switches between the control inputs. This relay that works is the one that switches from ant in to RF in. The unit does receive OK.
There is no signal out of the unit and the other silicon switches do not get the - 8 volt control. One of them gets a -8 V that does not switch to other control input.
I think that there is an IC that does this and cannot identify it. Cannot find where the neg 8 V control signal is coming from.
There are TTL waveforms that come into the unit, however I cannot really understand the intelligence. But no reason to think these are bad since everything else works.
There is a good signal coming into the RF IO unit about +12 to -2 dBM.
I think this is what the manual calls for, then the attenuators on the unit do the rest.
So far no luck with finding schematics for RF IO.
Thanks for the help.
Perhaps someone has the schematic??
Perhaps this is something I need Amtronix to fix for me.
Wally KC9INK

# 2700. Re: [hp8924] Using external VGA monitor

Yahoo group: hp8924
Date: 2018-05-16 22:56:19 UTC
From: Paul Holm
Topic: 2688  Message: 2700

Thanks to all that have replied, I appreciate the help.

Ralph, could you tell me which size SMD resistors to order?

73 Paul KCØHST

On 5/13/2018 3:12 PM, Ralph Mowery ku4pt@... [hp8924] wrote:
>
> The 4 SMD 50 K ohm resistors are soldered across capacitors 29,32,33,
> and 36 on the
> GBS8200 board. They are in a row between the 3 pots and an IC.
>
> This will provide a green video output to a VGA monitor.
>
>

# 2701. Re: [hp8924] Re: HP 8935 schematic

Yahoo group: hp8924
Date: 2018-05-16 18:45:42 UTC
From: W Private
Topic: 2679  Message: 2701

Checked all the volts on input to the RF IO board. they are all OK. Checked all the bigger caps too.I identified the silicon relays and one is working with - 8 volts control volts that switches between the control inputs. This relay that works is the one that switches from ant in to RF in. The unit does receive OK.There is no signal out of the unit and the other silicon switches do not get the - 8 volt control. One of them gets a -8 V that does not switch to other control input.I think that there is an IC that does this and cannot identify it. Cannot find where the neg 8 V control signal is coming from.There are TTL waveforms that come into the unit, however I cannot really understand the intelligence. But no reason to think these are bad  since everything else works.There is a good signal coming into the RF IO unit about +12 to -2 dBM.I think this is what the manual calls for, then the attenuators on the unit do the rest.So far no luck with finding schematics for RF IO.Thanks for the help.Perhaps this is something I need Amtronix to fix for me.Wally KC9INK
On Monday, May 14, 2018, 10:48:37 PM EDT, zl1cvd@... [hp8924] <hp8924@yahoogroups.com> wrote:

No idea where to get datasheet for this. The older smd switches required both + and - supply rails to switch. Have you confirmed all supply rails 100% correct? I spent a couple of days hunting a PLL problem in one of this series only to find the +40V rail was being pulled down by a cap..

# 2702. Re: [hp8924] Using external VGA monitor

Yahoo group: hp8924
Date: 2018-05-18 03:32:22 UTC
From: Ralph Mowery
Topic: 2688  Message: 2702

I used some 06/03 50 K ohm resistors.
73 de Ralph ku4pt

On Thursday, May 17, 2018, 7:31:22 PM EDT, Paul Holm lists@... [hp8924] <hp8924@yahoogroups.com> wrote:

Thanks to all that have replied, I appreciate the help.

Ralph, could you tell me which size SMD resistors to order?

73  Paul KCØHST

On 5/13/2018 3:12 PM, Ralph Mowery ku4pt@... [hp8924] wrote:

The 4 SMD 50 K ohm resistors are soldered across capacitors 29,32,33, and 36 on the GBS8200 board.  They are in a row between the 3 pots and an IC.
This will provide a green video output to a VGA monitor.

# 2703. RE: [hp8924] Using external VGA monitor

Yahoo group: hp8924
Date: 2018-05-19 01:57:53 UTC
From: Art Larson
Topic: 2688  Message: 2703

Do you know if 47 k Ohm resistors will work?

I have some of those.

From: hp8924@yahoogroups.com [mailto:hp8924@yahoogroups.com]
Sent: Thursday, May 17, 2018 11:32 PM
To: Paul Holm lists@... [hp8924] <hp8924@yahoogroups.com>
Subject: Re: [hp8924] Using external VGA monitor

I used some 06/03 50 K ohm resistors.

73 de Ralph ku4pt

On Thursday, May 17, 2018, 7:31:22 PM EDT, Paul Holm lists@... <mailto:lists@...> [hp8924] <hp8924@yahoogroups.com <mailto:hp8924@yahoogroups.com> > wrote:

Thanks to all that have replied, I appreciate the help.

Ralph, could you tell me which size SMD resistors to order?

73 Paul KCØHST

On 5/13/2018 3:12 PM, Ralph Mowery ku4pt@yahoo.com <mailto:ku4pt@...> [hp8924] wrote:

The 4 SMD 50 K ohm resistors are soldered across capacitors 29,32,33, and 36 on the

GBS8200 board. They are in a row between the 3 pots and an IC.

This will provide a green video output to a VGA monitor.

# 2704. Re: RE: [hp8924] Using external VGA monitor

Yahoo group: hp8924
Date: 2018-05-19 03:09:50 UTC
From: Ralph Mowery
Topic: 2688  Message: 2704

I can't say for sure, but I don't see why they would not work.  If the components are 5% that would put the 47K ones in range if the 50K was low and the 47K was high in the tolerance range.

On Friday, May 18, 2018, 10:02:07 PM EDT, 'Art Larson' larson_art@... [hp8924] <hp8924@yahoogroups.com> wrote:

Do you know if 47 k Ohm resistors will work?

I have some of those.

# 2705. Re: [hp8924] Using external VGA monitor

Yahoo group: hp8924
Date: 2018-05-19 04:30:50 UTC
From: Paul Holm
Topic: 2688  Message: 2705

I ordered some 49.9K's today. Way cheaper than the 50K's. Not sure why.

On 5/18/2018 10:09 PM, Ralph Mowery ku4pt@... [hp8924] wrote:
>
>
> I can't say for sure, but I don't see why they would not work. If the
> components are 5% that would put the 47K ones in range if the 50K was
> low and the 47K was high in the tolerance range.
>
>
>
>
> On Friday, May 18, 2018, 10:02:07 PM EDT, 'Art Larson'
> larson_art@... [hp8924] <hp8924@yahoogroups.com> wrote:
>
>
>
>
> Do you know if 47 k Ohm resistors will work?
>
> I have some of those.
>
>
>
>

# 2706. Re: [hp8924] Using external VGA monitor

Yahoo group: hp8924
Date: 2018-05-19 08:18:27 UTC
From: Robert Atkinson
Topic: 2688  Message: 2706

47k will be fine, Value is not critical. main function is to prevent leakage currents charging input capacitance and saturating the input.

Robert G8RPI.

# 2707. Re: HP 8935 schematic

Yahoo group: hp8924
Date: 2018-05-19 19:40:02 UTC
From: willard561@...
Topic: 2679  Message: 2707

I don't think he can provide a schematic, but Amtronix does repair them.
http://www.amtronix.com/usequip1.htm http://www.amtronix.com/usequip1.htm .

# 2708. HP part for 8935

Yahoo group: hp8924
Date: 2018-05-28 12:00:54 UTC
From: wallydoc@...
Topic: 2708  Message: 2708

Looking for a couple AC 438 MMIC silicon switches for a HP 8935.
Have some inquiries on the net.
I believe it is electrically identical to Macom SW 338 but higher power.
It is an 8 pin surface mount DIP.
I will also post on HP agilent equip group.
Thanks

# 2709. HP8935-E6380

Yahoo group: hp8924
Date: 2018-06-02 15:24:37 UTC
From: wallydoc@...
Topic: 2709  Message: 2709

Does anyone have a RF/IO board for a HP 8935? Part number E6380-61810, none on Ebay.
I know Amtronix does have them.

Alternatively I believe there are two parts on this board that are broken. I have looked quite a bit and cannot find either reasonable prices or reasonable quantities. There are some at reasonable prices($16) if I buy 16 chips (anyone want some?)

AC 438 MMIC RF switch alpha industries-skyworks. 8 pin surface mount chip.

SCX 6206TQM/V2, a PLCC44 chip. Probably a SCX6026 chip modified for HP.

Thanks in advance
Wally KC9INK

# 2710. Re: HP8935-E6380

Yahoo group: hp8924
Date: 2018-06-03 20:43:00 UTC
From: wallydoc@...
Topic: 2709  Message: 2710

Ordered the parts from:
www.moduletransistor.com http://www.moduletransistor.com/
They had both parts and took my money right away.
Never heard of them before.
When I get the parts in a week or so will report.
This might be a good source of parts.
Wally KC9INK

# 2711. Re: HP8935-E6380

Yahoo group: hp8924
Date: 2018-06-05 13:25:41 UTC
From: Clif Holland
Topic: 2709  Message: 2711

Went to the website. No contact info, no location, no price, nothing really except a listing of parts like I get from one of the IC search engines. Those listings at least show who has it in stock and a price.

I'll pass

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Clif Holland KA5IPF
www.avvid.com
214-850-0973

# 2712. Re: [hp8924] Re: HP8935-E6380

Yahoo group: hp8924
Date: 2018-06-05 13:47:41 UTC
From: W Private
Topic: 2709  Message: 2712

Took a few days but got E mails with tracking numbers. I paid with pay pal.Will let everyone know when the parts arrive ao do not arrive.I only used this company because they were the only one that had the parts and didn't want to sell parts at a large volume or at an unreasonable price.Wally KC9INK
On Tuesday, June 5, 2018, 9:29:23 AM EDT, Clif Holland clif@avvid.com [hp8924] <hp8924@yahoogroups.com> wrote:

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Clif Holland KA5IPF
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